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16. Abstract

This report presents statistical information pertaining to the Federal Aviation Administration, the National Airspace System, Airports, Airport Activity, U.S. Civil Air Carrier Fleet, U.S. Civil Air Carrier Operating Data, Airmen, General Aviation Aircraft, Aircraft Accidents, and a Glossary of the terms used in this publication.

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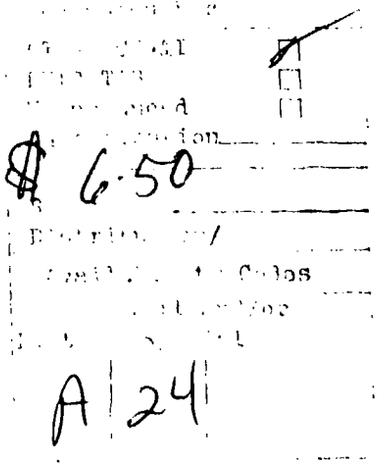
FAA Statistical Handbook of Aviation

Calendar Year 1980



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PREFACE

The FAA Statistical Handbook of Aviation is published annually by the Federal Aviation Administration (FAA). Its prime purpose is to serve as a convenient source for historical data. This edition contains data on major civil aviation activities for the period ending December 31, 1980.

The handbook should provide a valuable source of information for the Department of Transportation (DOT), operating offices of the FAA, the Civil Aeronautics Board (CAB), and other government agencies, as well as non-government organizations interested in aviation.

Chapter I deals with the FAA and its functions. This section also includes a comparison of the agency's appropriations from fiscal years 1977-1981, and the agency's personnel complement at the end of the calendar and fiscal years for 1971 through 1980.

National Airspace System data reflecting the workload of the FAA air traffic facilities--terminal and en route--are contained in Chapter II. This chapter contains air traffic activity reported by FAA-operated airport traffic control towers, air route traffic control centers, and domestic and international flight service stations.

Selected statistics concerning the Nation's Airport Facilities are presented in Chapter III by state within FAA regions. In addition to the total count of these facilities, this chapter includes statistics pertaining to the physical characteristics (paved vs. unpaved runways, lighted vs.

unlighted runways, length of runways, etc.), size of populated areas served, funds allocated for airport development, etc.

Airport activity statistics comprising Chapter IV were prepared from data published in the calendar year 1980 edition of Airport Activity Statistics of the Certificated Route Air Carriers, issued jointly by the CAB and the FAA. In addition, this chapter presents individual passenger and traffic activity data from some of the Nation's international airports.

The U.S. Civil Air Carrier Fleet, as of December 31, 1980, is described in detail in Chapter V. These statistics were developed from Monthly Aircraft/Engine Utilization Reports submitted by the air carrier operators. The aircraft population discussed here is not an inventory of the aircraft owned by the air carriers, but represents the aircraft actually used by the air carrier fleet during December 1980.

U.S. Civil Air Carrier Operating Data--revenue passenger miles flown, available seat-miles and enplanements, revenue ton-miles flown, revenue aircraft miles flown, personnel, payroll, average salary, and operating revenues and expenses of the certificated route air carriers--are presented in Chapter VI. These statistics were obtained from schedules submitted by the certificated route air carriers to the CAB.

The Airmen data shown in Chapter VII were obtained from official airmen certification records maintained by the FAA Aeronautical Center in Oklahoma City, Oklahoma.

The general aviation aircraft data presented in Chapter VIII were collected from the General Aviation Activity and Avionics Survey. Numbers of active aircraft and hours flown are shown for each aircraft type.

Aircraft Accidents, both air carrier and general aviation, appear in Chapter IX. Up to 1965, air carrier accident data were furnished by the CAB. Comparable data for 1965 to 1979, inclusive, were made available by the National Transportation Safety Board (NTSB). General aviation accident data from 1959 to 1965 were obtained from the CAB. The following two years data were collected by the NTSB. However, during 1957 and 1958, the CAB and the Civil Aeronautics Administration shared responsibility for the investigation and analysis of general aviation accidents.

The FAA Statistical Handbook of Aviation is prepared by the Information Analysis Branch, Information and Statistics Division, Office of Management Systems, with the cooperation of other FAA and DOT offices. Appreciation is expressed to the Civil Aeronautics Board, U.S. Bureau of the Census, U.S. Department of Labor, Interstate Commerce Commission, Immigration and Naturalization Service, and many municipalities and private organizations for their assistance.

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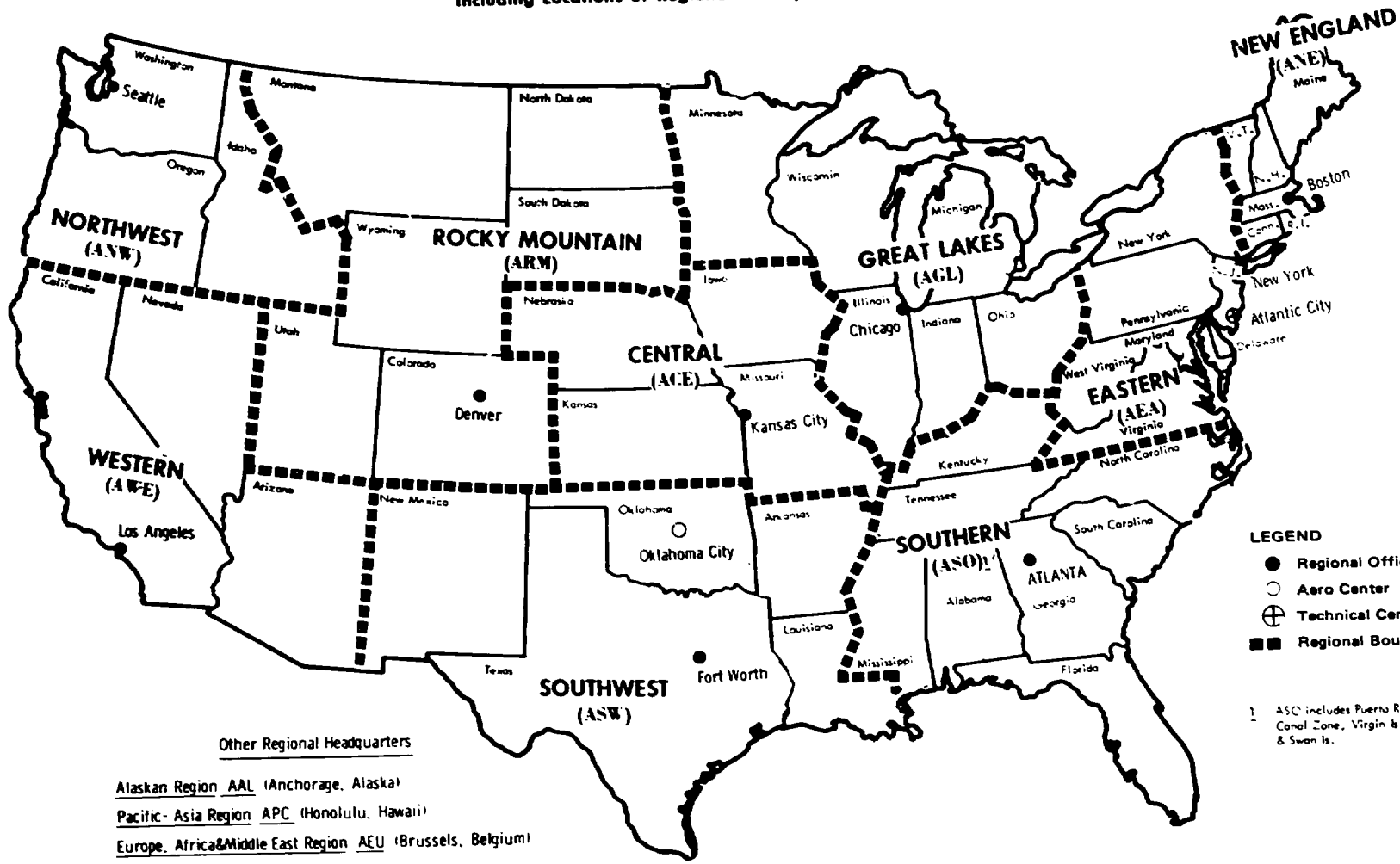
Department of Transportation
Federal Aviation Administration

FAA REGIONAL BOUNDARIES

Including Locations of Regional Headquarters & Centers



Other Regional Headquarters

Alaskan Region AAL (Anchorage, Alaska)

Pacific-Asia Region APC (Honolulu, Hawaii)

Europe, Africa&Middle East Region AEU (Brussels, Belgium)

[1] ASO includes Puerto Rico, Canal Zone, Virgin Is. & Swan Is.

I. THE FEDERAL AVIATION ADMINISTRATION

The Department of Transportation Act of 1966 established a new executive department known as the Department of Transportation. The general welfare, economic growth, stability, and security of the Nation pointed to the need for the development of national transportation policies and programs effectively utilizing the Nation's transportation resources. The Act provided for inclusion of the Federal Aviation Agency in the Department as the Federal Aviation Administration.

Directed by an Administrator, who is appointed by the President, by and with the advice and consent of the Senate, the FAA has as its primary function the fostering of the development and safety of American aviation. More specifically, the FAA is responsible for developing the major policies necessary to guide the long-range growth of civil aviation; modernizing the air traffic control system; establishing in a single authority the essential management functions necessary to support the common needs of civil and military operations; providing for the most effective and efficient use of the airspace over the United States; and for the rulemaking responsibilities relative to these functions.

The FAA constructs, operates, and maintains the National Airspace System and the facilities which are a part of the system; it allocates and regulates the use of the airspace; it ensures adequate separation between aircraft operating in controlled airspace; and, through research

and development programs, it provides new systems and equipment for improving utilization of the Nation's airspace.

The Federal Aid to Airports Program (FAAP) authorized the FAA to make grants of federal funds to sponsors for airport development and for advanced planning and engineering. Under FAAP, approximately $1.2 billion were granted by FAA to airport sponsors for airport development purposes from 1947 through 1970. FAAP was superseded by the Airport Development Act of 1970. The FAA maintains and operates Washington National and Dulles International airports. Dulles International is the first airport in the world specifically designed for the use of commercial jet transports.

The FAA prescribes and administers rules and regulations concerning airmen competency, aircraft airworthiness, and air traffic control. It promotes safety through certification of airmen, aircraft, and flight and aircraft maintenance schools. It reviews the design, structure, and performance of new aircraft to insure the safety of the flying public.

Services provided by FAA toward the development of aviation and air commerce include:

Dissemination of news and information on civil aviation generally.

Publication of flight information data for pilots.

Technical aviation assistance to other governments, operation of overseas civil aviation missions, and the aviation training of foreign nationals.

Development of medical standards for airmen through aviation medical research.

Research and development in the field of aeronautics and electronics.

Other activities required to encourage and foster the world-wide development of civil aviation and air commerce.

Policies governing these programs are developed in the Washington headquarters of FAA, and are executed by field employees under the supervision of regional offices strategically located throughout the United States as well as the FAA Technical Center at Atlantic City, New Jersey, and the Mike Monroney Aeronautical Center at Oklahoma City, Oklahoma.

TABLE 1.1

FAA APPROPRIATIONS: FISCAL YEARS 1977 THROUGH 1981
($ IN MILLIONS)

APPROPRIATION	1977	1978	1979	1980	1981
TOTAL	2,566.1	2,792.5	3,150.3	3,273.9	3,582.6
OPERATIONS	1,487.8	1,628.3(C)	1,737.7(F)	1,849.5(I)	1,833.9(K)
OPERATIONS (AIRPORT AND AIRWAY TRUST FUND)	250.0	275.0	300.0	325.0	525.0
FACILITIES AND EQUIPMENT (AIRPORT AND AIRWAY TRUST FUND)	200.0	209.0(D)	345.4(G)	292.0(J)	350.0
GRANTS-IN-AID FOR AIRPORTS (AIRPORT AND AIRWAY TRUST FUND)	510.0(A)	555.0	644.1	677.0	722.0(L)
RESEARCH, ENGINEERING AND DEVELOPMENT (AIRPORT AND AIRWAY TRUST FUND)	74.4	80.8	75.1	75.0	85.0
METROPOLITAN WASHINGTON AIRPORTS	26.5	27.8	29.5	34.1	45.5
FACILITIES, ENGINEERING, AND DEVELOPMENT	17.4(B)	16.6(E)	18.5(H)	20.5	21.2

(A) DOES NOT INCLUDE $35.0 ADDITIONAL OBLIGATIONAL AUTHORITY MADE AVAILABLE BY THE ECONOMIC STIMULUS ACT, P.L. 95-29.

(B) INCLUDES $1.9 ADDITIONAL OBLIGATIONAL AUTHORITY TRANSFERRED FROM OTHER ACCOUNTS.

(C) INCLUDES $5.6 ADDITIONAL OBLIGATIONAL AUTHORITY TRANSFERRED FROM OTHER ACCOUNTS.

(D) INCLUDES $9.0 ADDITIONAL OBLIGATIONAL AUTHORITY TRANSFERRED FROM OTHER ACCOUNTS.

(E) INCLUDES $2.4 ADDITIONAL OBLIGATIONAL AUTHORITY TRANSFERRED FROM OTHER ACCOUNTS.

(F) INCLUDES $5.0 ADDITIONAL OBLIGATIONAL AUTHORITY TRANSFERRED FROM OTHER ACCOUNTS.

(G) INCLUDES $54.4 ADDITIONAL OGLIGATIONAL AUTHORITY TRANSFERRED FROM OTHER ACCOUNTS.

(H) INCLUDES $.2 ADDITIONAL OGLIGATIONAL AUTHORITY TRANSFERRED FROM OTHER ACCOUNTS.

(I) INCLUDES $5.0 ADDITIONAL OGLIGATIONAL AUTHORITY TRANSFERRED FROM OTHER ACCOUNTS.

(J) INCLUDES $43.0 REAPPROPRIATION.

(K) INCLUDES $6.7 PROGRAM SUPPLEMENTAL.

(L) INCLUDES $22.0 REAPPROPRIATION.

TABLE 1.2

FAA CIVILIAN EMPLOYEES AT END OF FISCAL AND CALENDAR YEARS 1971 THROUGH 1980

DATE	FAA TOTAL PAID	FULL TIME PERMANENT			
		WASHINGTON OFFICE	WASHINGTON FIELD	OTHER FIELD	TOTAL PAID
06/71	54,515	2,752	911	49,910	53,537
12/71	54,220	2,748	888	49,567	53,203
06/72	53,295	2,634	871	48,767	52,272
12/72	52,497	2,535	894	48,214	51,643
06/73	53,646	2,585	852	49,190	52,627
12/73	53,322	2,533	875	48,740	52,148
06/74	56,386	2,739	1,010	50,212	53,961
12/74	55,820	2,669	981	50,226	53,876
06/75	57,678	2,819	960	51,126	54,905
12/75	56,732	2,774	922	50,999	54,695
06/76	59,064	2,910	948	52,264	56,122
09/76	58,438	2,880	944	52,167	55,991
12/76	57,790	2,842	953	51,728	55,523
09/77	58,081	2,683	940	52,137	55,760
12/77	57,631	2,612	926	51,891	55,429
09/78	57,494	2,303	909	52,015	55,227
12/78	57,005	2,272	921	51,747	54,940
09/79	56,435	2,124	888	51,432	54,444
12/79	56,394	2,144	922	51,498	54,564
09/80	55,361	2,060	918	50,560	53,538
12/80	55,340	2,069	942	50,500	53,511

NOTE: FAA TOTAL PAID INCLUDES FULL-TIME, PART-TIME, AND INTERMITTENT. FULL-TIME INCLUDES PERMANENT INCLUDES PAIED FULL-TIME EMPLOYEES WHO OCCUPY PERMANENT POSITIONS.

WASHINGTON OFFICE INCLUDES ALL PAID WASHINGTON HEADQUARTERS EMPLOYEES WHOSE DUTY STATION IS WASHINGTON, D.C.

WASHINGTON FIELD INCLUDES ALL PAID WASHINGTON HEADQUARTERS EMPLOYEES WHOSE DUTY STATION IS OUTSIDE WASHINGTON, D.C. (E.G., NATIONAL AND DULLES AIRPORTS, IN OTHER STATES, OR FOREIGN COUNTRIES).

OTHER FIELD INCLUDES ALL PAID EMPLOYEES WHOSE DUTY STATIONS ARE IN THE REGIONS OR CENTERS.

TABLE 1.3

10-YEAR BREAKDOWN OF NUMBER OF TOTAL FAA EMPLOYEES AS OF DECEMBER 31, 1971 - 1980

ORGANIZATIONAL GROUP	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
AIR TRAFFIC CONTROL SPECIALISTS	24,898	24,263	24,871	26,353	26,790	27,359	27,754	27,688	27,783	27,190
ELECTRONICS TECHNICIANS	8,984	8,807	8,889	8,967	9,149	9,396	9,423	9,423	9,209	8,871
AVIATION SAFETY INSPECTORS	2,178	2,096	2,079	2,091	2,082	2,039	1,982	1,999	2,016	2,038
ENGINEERS	2,461	2,394	2,401	2,500	2,597	2,697	2,649	2,576	2,501	2,436
ALL OTHERS	15,699	14,937	15,083	15,909	16,114	16,299	15,823	15,319	14,885	14,805
TOTAL EMPLOYEMENT	54,220	52,497	53,323	55,820	56,732	57,790	57,631	57,005	56,394	55,340

II. The National Airspace System

This chapter furnishes terminal and en route air traffic activity information of the National Airspace System for fiscal and calendar years. The data have been reported by the FAA-operated Airport Traffic Control Towers, Air Route Traffic Control Centers, and Flight Service facilities (Flight Service Stations, Combined Station/Towers and International Flight Service Stations). These reports are used as a guide in determiningthe need for larger or additional facilities, and possible changes in the number of personnel at existing facilities.

Data for towers are reported on Airport Operations and Instrument Approaches Monthly Summary (FAA Form 7230-11). This form contains landings and takeoffs (aircraft operations) reported by the towers by aviation category--air carriers, air taxi, general aviation, and military; instrument operations (IFR landings and takeoffs) and instrument approaches (IFR landings) are also included. Data for Air Route Traffic Control Centers (ARTCC's) are reported on ARTCC Operations and Instrument Approaches Monthly Summary (FAA Form 7230-12). Data contained on this form show departures, overs, and aircraft handled, plus instrument approaches handled by the ARTCC's. Activity of flight service stations, international flight service stations and combined station/towers is submitted on Monthly Activity Record--Flight Service Stations (FAA Form 7230-013). More detailed data pertaining to activity of these facilities may be found in the fiscal year 1980 edition of FAA Air Traffic Activity.

TABLE 2.1

U.S. AIR ROUTE AIRWAY MILEAGE: 1971 - 1980*

(CONTIGUOUS 48 STATES)

DECEMBER 31	VERY HIGH FREQUENCY VOR/VORTAC		
	LOW ALTITUDE		JET ROUTES
	DIRECT	ALTERNATE	
1971	142,093	33,274	114,373
1972	143,241	33,436	117,417
1973	144,578	32,999	119,672
1974	144,939	32,999	122,372
1975	148,834	32,320	123,258
1976	150,172	31,888	130,160
1977	152,947	31,270	131,968
1978	155,242	31,235	134,709
1979	157,853	31,625	135,920
1980	159,008	31,409	137,503

* MILEAGE SHOWN IN NAUTICAL MILES BASED ON NATIONAL OCEAN SURVEY FIGURES.

TABLE 2-2

FAA AIR ROUTE FACILITIES AND SERVICES: 1971 THROUGH 1980

December 31	VOR VORTAC	Nondirectional Radio Beacons	Air Route Traffic Control Centers	Airport Traffic Control Towers	Combined Station/ Towers	Flight Service Stations	International Flight Service Stations	Instrument Landing Systems	Airport Surveillance Radar
1971	980	669	27	347	44	331	8	337	122
1972	991	706	27	355	42	324	7	403	125
1973	995	739	27	403	29	315	7	467	142
1974	1,000	793	27	417	21	320	7	490	156
1975	1,011	848	26	487	21	321	7	580	177
1976	1,020	920	25	488	16	321	7	640	175
1977	1,021	959	25	495	7	319	7	678	182
1978	1,020	988	25	494	7	319	6	698	185
1979	1,028	1,015	25	499	5	318	6	753	192
1980	1,038(A)	1,083(B)	25(C)	501(D)	4	317	6	817(E)	195(F)

(A) Includes 67 nonfederal and 43 military.
(B) Includes 722 nonfederal and 54 military.
(C) Includes 3 military combined center/radar approach control facilities (CERAP).
(D) Includes 32 nonfederal and 38 military.
(E) Includes 10 Landing Directional Aid (LDA), 70 nonfederal, and 9 military.
(F) Includes 29 military.

FISCAL YEARS
(TABLES 2.3 - 2.7)

TABLE 2.3--AIR TRAFFIC ACTIVITY AT AIR ROUTE TRAFFIC CONTROL CENTERS, BY AVIATION CATEGORY--FISCAL YEARS 1976-1980

Workload measure	Year	Total		Air Carrier		Air Taxi		General Aviation		Military	
		Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change
IFR Aircraft Handled 1/	1980	30,061,372	+1	13,877,997	-1	2,573,776	+11	8,892,404	+1	4,717,195	-1
	1979	29,909,712	+7	14,003,540	+3	2,328,243	+20	8,827,100	+13	4,750,829	+2
	1978	28,055,382	+8	13,642,071	+5	1,931,216	+19	7,813,848	+14	4,668,247	+4
	1977	25,973,299	---	12,986,985	---	1,639,300	---	6,856,057	---	4,490,957	---
	1976	23,924,963	+1	12,406,660	(*)	1,395,304	+6	5,956,575	+8	4,166,424	-5
IFR Departures	1980	11,657,684	(*)	4,914,458	-3	1,242,419	+11	3,851,186	+1	1,649,619	-1
	1979	11,645,499	+6	5,042,781	+1	1,115,835	+21	3,819,669	+13	1,667,214	-1
	1978	11,007,775	+8	5,014,806	+5	923,731	+18	3,387,877	+14	1,681,361	+3
	1977	10,178,872	---	4,790,929	---	781,158	---	2,971,633	---	1,635,152	---
	1976	9,403,277	+2	4,616,439	(*)	668,362	+6	2,584,473	+8	1,533,953	-4
IFR Overs	1980	6,746,004	+2	4,049,081	+3	88,938	-8	1,140,028	(*)	1,417,957	(*)
	1979	6,618,714	+10	3,917,978	+8	96,573	+15	1,187,762	+14	1,416,401	+8
	1978	6,039,332	+8	3,612,459	+6	83,754	+9	1,038,094	+14	1,305,525	+7
	1977	5,615,555	---	3,405,127	---	76,984	---	912,791	---	1,220,653	---
	1976	5,118,509	+1	3,173,782	+2	58,580	+10	787,629	---	1,098,518	-6

1/ The number of IFR Departures multiplied by two, plus the number of IFR Overs.

(*) Less than 0.5 percent.

NOTE: Fiscal year 1977 and future years will be based on the new fiscal year.

TABLE 2.4--AIR TRAFFIC ACTIVITY AT AIRPORT TRAFFIC CONTROL TOWERS, BY AVIATION CATEGORY--FISCAL YEARS 1976-1980

Workload measure	Year	Total		Air Carrier		Air Taxi		General Aviation		Military	
		Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change
Total Aircraft Operations	1980	66,195,066	-4	10,148,956	-2	4,584,706	+5	48,972,784	-5	2,488,620	-2
	1979	69,039,372	+3	10,406,570	+3	4,370,514	+16	51,716,626	+2	2,545,662	(*)
	1978	67,173,434	+1	10,063,259	+3	3,773,484	+14	50,798,779	(*)	2,537,912	-6
	1977	66,724,291	---	9,770,137	---	3,296,502	---	50,958,847	---	2,698,805	---
	1976	62,491,505	+6	9,339,479	(*)	2,867,621	+6	47,594,278	+8	2,690,127	(*)
Itinerant Operations	1980	44,270,414	-3	10,148,956	-2	4,584,706	+5	28,324,110	-4	1,212,642	-1
	1979	45,415,572	+4	10,406,570	+3	4,370,514	+16	29,407,844	+3	1,230,644	+2
	1978	43,562,963	+3	10,063,259	+3	3,773,484	+14	28,515,850	+1	1,210,370	-4
	1977	42,425,767	---	9,770,137	---	3,296,502	---	28,101,396	---	1,257,732	---
	1976	39,660,709	+6	9,339,479	(*)	2,867,621	+6	26,180,772	+8	1,272,837	-1
Local Operations	1980	21,924,652	-3	---	---	---	---	20,648,674	-7	1,275,978	-3
	1979	23,623,800	(*)	---	---	---	---	22,308,782	(*)	1,315,018	-1
	1978	23,610,471	-3	---	---	---	---	22,282,929	-3	1,327,542	-8
	1977	24,298,524	---	---	---	---	---	22,857,451	---	1,441,073	---
	1976	22,830,796	+7	---	---	---	---	21,413,506	+7	1,417,290	+1

(*) Less than 0.5 percent.

NOTE: Fiscal year 1977 and future years will be based on the new fiscal year.

TABLE 2.5--AIR TRAFFIC ACTIVITY AT FAA FACILITIES, BY AVIATION CATEGORY--FISCAL YEARS 1976-1980

Workload measure	Year	Total		Air Carrier		Air Taxi		General Aviation		Military	
		Total	Annual Change	Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change
Total Instrument Operations	1980	38,176,549	+5	10,613,262	-1	4,128,782	+13	19,332,557	+8	4,101,948	+5
	1979	36,225,027	+8	10,737,637	+3	3,657,696	+19	17,907,628	+10	3,922,066	+7
	1978	33,456,726	+6	10,421,496	+4	3,066,809	+20	16,310,259	+8	3,658,162	-2
	1977	31,518,742	---	10,053,440	---	2,563,882	---	15,150,698	---	3,750,782	---
	1976	28,097,463	+8	9,461,957	-1	2,156,475	+16	12,754,841	+19	3,724,190	-6
Total Instrument Approaches 1/	1980	2,041,078	-18	732,576	-22	287,465	-9	933,671	-16	87,366	-27
	1979	2,482,606	+12	940,892	+10	315,804	+11	1,106,001	+10	119,909	+11
	1978	2,223,426	+25	853,853	+27	285,508	+47	975,766	+20	108,299	+10
	1977	1,776,691	---	670,064	---	194,347	---	813,612	---	98,668	---
	1976	1,671,558	-12	675,213	-16	176,599	-10	706,625	-8	113,121	-8
Total Instrument Approaches at Control Facilities	1980	1,888,659	-18	706,505	-23	259,018	-10	841,586	-16	81,550	-28
	1979	2,316,633	+13	912,272	+11	287,972	+11	1,002,597	+15	113,792	+12
	1978	2,049,828	+27	820,143	+28	260,040	+49	868,313	+22	101,332	+10
	1977	1,618,381	---	640,895	---	174,015	---	710,941	---	92,530	---
	1976	1,519,443	-11	640,465	-15	154,909	-7	617,523	-7	106,546	-5

1/ Includes instrument approaches at Air Route Traffic Control Centers.

(*) Less than 0.5 percent.

NOTE: Fiscal year 1977 and future years will be based on the new fiscal year.

TABLE 2.6--AIR TRAFFIC ACTIVITY AT FLIGHT SERVICE FACILITIES--FISCAL YEARS 1976-1980

Workload measure	Year	FLIGHT SERVICES 1/		FLIGHT PLANS ORIGINATED						AIRPORT ADVISORIES		PILOT BRIEFS	
		Total	Annual change	Total	Annual change	IFR-DVFR	Annual change	VFR	Annual change	Total	Annual change	Total	Annual change
Flight Service Stations	1980	64,234,861	-3	8,986,486	-5	6,586,842	-4	2,399,644	-6	3,054,352	-4	18,325,012	+2
	1979	66,389,687	+3	9,429,862	+4	6,866,112	+8	2,563,750	-4	3,191,382	-2	18,709,691	+3
	1978	64,690,843	+6	9,041,583	+5	6,369,364	+9	2,672,219	-3	3,244,961	+6	18,230,172	+8
	1977	60,928,168	---	8,607,414	---	5,858,565	---	2,748,849	---	3,054,885	---	16,852,412	---
	1976	57,511,119	(*)	8,028,349	+2	5,357,865	+4	2,670,484	-2	2,878,486	-3	15,938,507	-1
Combined Station/ Towers	1980	42,947	-79	7,763	-80	3,364	-47	4,429	-86	0	0	7,851	-70
	1979	207,728	-15	38,610	-17	6,335	-8	32,275	-19	0	0	25,924	+2
	1978	244,156	-36	46,739	-27	6,923	-57	39,816	-17	0	0	25,447	-45
	1977	380,291	---	63,932	---	16,054	---	47,878	---	0	0	45,937	---
	1976	593,554	+5	96,963	+5	34,212	-3	62,751	+10	0	0	92,979	+5
International Flight Service Stations	1980	2,845,010	-5	535,319	+2	236,705	+5	298,614	(*)	3,031	-14	511,243	-12
	1979	3,000,151	+16	525,880	+14	225,770	+13	300,110	+14	3,526	+98	582,011	+16
	1978	2,595,296	+15	462,282	+10	200,166	+13	262,116	+8	1,778	+10	499,914	+31
	1977	2,263,673	---	420,536	---	177,119	---	243,417	---	1,615	---	382,959	---
	1976	1,832,448	-1	371,799	+3	135,498	+3	236,301	+3	1,205	+12	329,728	-5

1/ The sum of flight plans originated and pilot briefs, multiplied by two, plus the number of aircraft contacted. No credit is allowed for airport advisories.

(*) Less than 0.5 percent.

NOTE: Fiscal year 1977 and future years will be based on the new fiscal year.

TABLE 2.7--AIRCRAFT CONTACTED AT FLIGHT SERVICE FACILITIES, BY AVIATION CATEGORY--FISCAL YEARS 1976-1980

Workload measure	Year	Total		Air Carrier		Air Taxi		General Aviation		Military	
		Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change
Flight Service Stations	1980	9,611,865	-5	386,280	-8	873,472	+4	7,942,063	-6	410,050	-5
	1979	10,110,581	-1	417,909	+4	839,552	(*)	8,420,876	(*)	432,244	-18
	1978	10,147,333	+1	401,192	+11	838,268	+10	8,382,210	+1	525,663	-9
	1977	10,008,516	---	359,899	---	763,995	---	8,308,058	---	576,564	---
	1976	9,577,407	-2	374,170	-11	731,127	+4	7,895,816	-1	576,294	-16
IFR-DVFR	1980	1,956,797	-4	305,943	-9	260,024	+5	1,264,271	-4	126,559	-8
	1979	2,038,070	+6	336,739	+6	246,554	+13	1,317,357	+11	137,420	-29
	1978	1,917,549	+17	318,789	+14	218,344	+26	1,187,224	+21	193,192	-4
	1977	1,637,448	---	279,199	---	173,224	---	984,207	---	200,818	---
	1976	1,525,214	-6	298,600	-12	161,547	-3	859,131	-3	205,936	-8
VFR	1980	7,655,068	-5	80,337	-1	613,448	+3	6,677,792	-6	283,491	-4
	1979	8,072,511	-2	81,170	-1	592,998	-4	7,103,519	-1	294,824	-11
	1978	8,229,784	-2	82,403	+2	619,924	+5	7,194,986	-2	332,471	-12
	1977	8,371,068	---	80,700	---	590,771	---	7,323,851	---	375,746	---
	1976	8,052,193	-2	75,570	-4	569,580	+7	7,036,685	-1	370,358	-20

(*) Less than 0.5 percent.

NOTE: Fiscal year 1977 and future years will be based on the new fiscal year.

TABLE 2.7--AIRCRAFT CONTACTED AT FLIGHT SERVICE FACILITIES, BY AVIATION CATEGORY--FISCAL YEARS 1976-1980 - Continued

Workload measure	Year	Total		Air Carrier		Air Taxi		General Aviation		Military	
		Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change
Combined Station/ Tower	1980	11,659	-85	202	-63	3,767	-91	6,603	-76	1,087	-84
	1979	78,660	-21	550	-46	43,637	-24	27,798	-17	6,675	-13
	1978	99,784	-38	1,017	-76	57,712	-10	33,356	-59	7,699	-31
	1977	160,553	---	4,279	---	64,175	---	80,940	---	11,159	---
	1976	213,670	+6	5,099	+116	55,486	+36	139,079	-2	14,006	-18
IFR-DVFR	1980	1,213	-69	194	-64	86	-94	765	-28	168	-78
	1979	3,889	-10	540	-12	1,517	-5	1,057	-7	775	-32
	1978	4,333	-68	616	-81	1,443	-59	1,134	-76	1,140	-50
	1977	13,717	---	3,248	---	3,507	---	4,666	---	2,296	---
	1976	20,231	+28	4,794	+121	3,645	+240	8,206	-4	3,586	-11
VFR	1980	10,446	-86	8	-20	3,681	-91	5,838	-78	919	-84
	1979	74,771	-22	10	-98	42,120	-25	26,741	-17	5,900	-10
	1978	95,451	-35	401	-61	56,269	-7	32,222	-58	6,559	-26
	1977	146,836	---	1,031	---	60,668	---	76,274	---	8,863	---
	1976	193,439	+4	305	+56	51,841	+30	130,873	-2	10,420	-20

NOTE: Fiscal year 1977 and future years will be based on the new fiscal year.

TABLE 2.7--AIRCRAFT CONTACTED AT FLIGHT SERVICE FACILITIES, BY AVIATION CATEGORY--FISCAL YEARS 1976-1980 - Continued

Workload measure	Year	Total		Air Carrier		Air Taxi		General Aviation		Military	
		Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change
International Flight Service Stations	1980	751,886	-4	149,765	+16	207,948	-12	361,565	-7	32,608	+9
	1979	784,369	+17	128,645	+23	235,570	+3	390,216	+27	29,938	-2
	1978	670,904	+2	104,468	-13	228,097	-4	307,929	+13	30,410	+20
	1977	656,683	---	120,170	---	238,397	---	272,870	---	25,246	---
	1976	429,394	+1	87,109	+15	123,059	-5	205,465	(*)	13,761	-10
IFR-DVFR	1980	186,672	+13	147,062	+17	4,193	-12	29,988	+2	5,429	-3
	1979	165,482	+15	125,725	+21	4,736	+32	29,396	-1	5,625	-9
	1978	143,421	-7	103,906	-12	3,581	-15	29,767	+16	6,167	-4
	1977	155,029	---	118,712	---	4,204	---	25,714	---	6,399	---
	1976	109,160	+14	85,998	+16	3,339	-13	15,656	+19	4,167	-12
VFR	1980	565,214	-9	2,703	-7	203,755	-12	331,577	-8	27,179	+12
	1979	618,887	+17	2,920	+420	230,834	+3	360,820	+28	24,313	(*)
	1978	527,483	+5	562	-61	224,516	-4	278,162	+13	24,243	+29
	1977	501,654	---	1,458	---	234,193	---	247,156	---	18,847	---
	1976	320,234	-3	1,111	-37	119,720	-4	189,809	-1	9,594	-10

(*) Less than 0.5 percent.

NOTE: Fiscal year 1977 and future years will be based on the new fiscal year.

CALENDAR YEARS
(TABLES 2.8 - 2.12)

TABLE 2.8--AIR TRAFFIC ACTIVITY AT AIR ROUTE TRAFFIC CONTROL CENTERS, BY AVIATION CATEGORY--CALENDAR YEARS 1976-1980

	Year	Total		Air Carrier		Air Taxi		General Aviation		Military	
		Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change	Total	Annual change
IFR Aircraft Handled 1/	1980	29,907,994	-1	13,649,986	-2	2,597,415	+6	8,912,816	-1	4,747,777	-1
	1979	30,201,537	+6	13,955,015	+1	2,448,254	+24	9,013,656	+14	4,784,612	+2
	1978	28,380,569	+6	13,822,109	+4	1,967,450	+13	7,920,465	+10	4,670,545	+2
	1977	26,761,898	+10	13,253,466	+5	1,737,815	+22	7,177,060	+18	4,593,557	+11
	1976	24,219,751	+3	12,597,933	+3	1,418,241	+1	6,069,901	+6	4,133,676	-3
IFR Departures	1980	11,595,010	-1	4,821,900	-3	1,254,714	+7	3,857,054	-1	1,661,342	-1
	1979	11,742,106	+6	4,988,827	-2	1,177,347	+25	3,900,405	+14	1,675,527	(*)
	1978	11,120,772	+6	5,074,296	+4	939,779	+13	3,430,438	+10	1,676,259	+1
	1977	10,489,543	+10	4,888,716	+4	830,036	+23	3,110,514	+18	1,660,277	+9
	1976	9,516,600	+2	4,682,226	+2	675,650	(*)	2,633,793	+6	1,524,931	-2
IFR Overs	1980	6,717,974	(*)	4,006,186	+1	87,987	-6	1,198,708	-1	1,425,093	-1
	1979	6,717,325	+9	3,977,361	+8	93,560	+6	1,212,846	+14	1,433,558	+9
	1978	6,139,025	+6	3,673,517	+6	87,892	+13	1,059,589	+11	1,318,037	+4
	1977	5,782,812	+11	3,476,034	+8	77,743	+16	956,032	+19	1,273,003	+17
	1976	5,186,551	+3	3,233,481	+4	66,941	+20	802,315	+6	1,083,814	-4

1/The number of IFR Departures multiplied by two to account for IFR approaches, plus the number of IFR Overs.

(*)Less than 0.5 percent.

TABLE 2.9--AIR TRAFFIC ACTIVITY AT AIRPORT TRAFFIC CONTROL TOWERS, BY AVIATION CATEGORY--CALENDAR YEARS 1976-1980

	Year	Total	Annual change	Air Carrier	Annual change	Air Taxi	Annual change	General Aviation	Annual change	Military	Annual change
Total Aircraft Operations	1980	64,796,561	-6	9,956,045	-4	4,629,143	-3	47,693,552	-8	2,517,821	-1
	1979	69,073,449	+1	10,325,629	+1	4,490,201	+16	51,703,538	(*)	2,554,081	+1
	1978	68,293,868	+2	10,209,356	+3	3,883,099	+14	51,669,345	+2	2,532,068	-5
	1977	66,801,390	+4	9,882,018	+3	3,418,582	+15	50,835,720	+4	2,665,070	+1
	1976	63,974,621	+7	9,574,172	+4	2,976,957	+8	48,793,365	+8	2,630,127	-2
Itinerant Operations	1980	43,634,248		9,956,045	-4	4,629,143	-3	27,807,808	-4	1,241,257	(*)
	1979	45,569,807	+3	10,325,629	+1	4,490,201	+16	29,515,726	+2	1,238,251	+2
	1978	44,346,471	+4	10,209,356	+3	3,883,099	+14	29,038,942	+3	1,215,074	-2
	1977	42,605,943	+5	9,882,018	+3	3,418,582	+15	28,060,581	+4	1,244,762	(*)
	1976	40,759,763	+7	9,574,172	+4	2,976,957	+8	26,969,787	+9	1,238,847	-3
Local Operations	1980	21,162,313	-10	0	0	0	0	19,885,749	-10	1,276,564	-3
	1979	23,503,642	-2	0	0	0	0	22,187,812	-2	1,315,830	(*)
	1978	23,947,397	-2	0	0	0	0	22,630,403	-1	1,316,994	-7
	1977	24,195,447	+4	0	0	0	0	22,775,139	+4	1,420,308	+2
	1976	23,214,858	+6	0	0	0	0	21,823,578	+6	1,391,280	-1

(*)Less than 0.5 percent.

TABLE 2-10--AIR TRAFFIC ACTIVITY AT FAA FACILITIES, BY AVIATION CATEGORY--CALENDAR YEARS 1976-1980

	Year	Total	Annual change	Air Carrier	Annual change	Air Taxi	Annual change	General Aviation	Annual change	Military	Annual change
Total Instrument Operations	1980	38,385,627	-4	10,542,195	-1	4,270,184	+11	19,482,789	+6	4,090,459	+3
	1979	36,932,918	+8	10,687,602	+1	3,841,676	+22	18,415,333	+10	3,988,307	+8
	1978	34,209,447	+6	10,583,502	+4	3,149,110	+16	16,780,693	+8	3,696,142	-1
	1977	32,162,269	+10	10,196,771	+4	2,713,805	+20	15,510,259	+13	3,741,434	+3
	1976	29,347,757	+10	9,781,930	+5	2,268,518	+14	13,654,063	+17	3,643,246	-4
Total Instrument Approaches 1/	1980	2,096,485	-13	694,469	-23	345,554	+9	955,176	-11	101,286	-22
	1979	2,420,987	+12	899,506	+8	316,334	+15	1,075,005	+13	130,142	+25
	1978	2,163,359	+10	829,435	+10	276,132	+18	954,014	+8	103,778	+2
	1977	1,973,033	+20	752,396	+18	232,744	+35	885,811	+22	102,082	-2
	1976	1,641,997	-12	638,315	-17	172,739	-11	726,485	-5	104,458	-17
Total Instrument Approaches at Control Facilities	1980	1,949,077	-14	669,548	-23	318,814	+11	866,326	-11	94,389	-24
	1979	2,253,875	+13	871,388	+9	287,429	+14	971,113	+14	123,945	+27
	1978	1,998,170	+11	797,630	+11	250,985	+19	852,371	+10	97,184	+2
	1977	1,801,222	+20	720,608	+18	210,027	+36	774,937	+21	95,650	-3
	1976	1,500,964	-10	608,876	-16	154,654	-7	638,565	-4	98,869	-15

1/Includes instrument approaches at Air Route Traffic Control Centers.

(*)Less than 0.5 percent.

TABLE 2.11--AIR TRAFFIC ACTIVITY AT FLIGHT SERVICE FACILITIES--CALENDAR YEARS 1976-1980

	Year	Flight plans originated						Airport advisories		Pilot briefs	
		Total	Annual change	IFR-DVFR	Annual change	VFR	Annual change	Total	Annual change	Total	Annual change
Flight Service Stations	1980	8,932,399	-5	6,565,094	-4	2,367,305	-7	4,003,016	+25	17,910,285	-5
	1979	9,405,663	+4	6,864,568	+6	2,541,095	-5	3,200,780	-3	18,935,293	+4
	1978	9,125,016	+8	6,453,679	+6	2,671,337	-2	3,297,082	+8	18,250,877	+5
	1977	8,793,209	+3	6,058,984	+12	2,734,225	+1	3,051,633	+3	17,387,678	+8
	1976	8,115,791	+1	5,419,205	+3	2,696,586	+3	2,958,496	+2	16,047,038	-1
Combined Station/ Towers	1980	6,673	-76	2,854	-46	3,891	-85	0	0	7,504	-63
	1979	30,925	-31	5,248	-30	25,677	-32	0	0	20,028	-24
	1978	45,094	-20	7,504	-33	37,590	-17	0	0	26,427	-23
	1977	56,369	-39	11,155	-64	45,214	-27	0	0	34,149	-62
	1976	93,047	-1	31,243	-9	61,804	+3	0	0	89,171	(*)
International Flight Service Stations	1980	527,660	-6	226,553	-5	301,107	+8	2,875	-14	508,608	-2
	1979	495,870	+4	216,278	+8	279,592	+1	3,335	+82	518,653	(*)
	1978	478,495	+10	201,003	+8	277,492	+12	1,829	+10	516,546	+27
	1977	434,742	+14	186,187	+23	248,555	+9	1,657	+25	405,304	+19
	1976	379,745	+4	150,912	+16	228,833	-3	1,327	+22	339,361	(*)

(*)Less than 0.5 percent.

TABLE 2-12--AIRCRAFT CONTACTED AT FLIGHT SERVICE FACILITIES, BY AVIATION CATEGORY--CALENDAR YEARS 1976-1980

	Year	Total	Annual change	Air Carrier	Annual change	Air Taxi	Annual change	General Aviation	Annual change	Military	Annual change
Flight Service Stations	1980	9,473,760	-6	379,157	-8	872,495	+2	7,812,776	-7	410,462	-3
	1979	10,113,557	-1	414,191	+1	855,003	+2	8,420,292	-1	424,071	-17
	1978	10,226,383	+2	408,740	+11	838,524	+7	8,468,978	+2	510,141	-10
	1977	10,038,220	+4	369,075	+2	780,697	+7	8,319,020	+3	569,428	+2
	1976	9,687,906	+2	360,250	-9	731,794	+3	8,040,198	+4	555,664	-7
IFR-DVFR	1980	1,938,540	-6	301,898	-9	255,192	-1	1,255,195	-6	126,255	-6
	1979	2,060,752	+8	332,887	+2	258,031	+18	1,335,087	+13	134,747	-25
	1978	1,905,207	+9	324,932	+13	217,898	+15	1,183,900	+11	178,477	-11
	1977	1,747,701	+17	288,303	+2	188,880	+22	1,069,325	+25	201,193	+2
	1976	1,488,946	-7	282,561	-11	154,957	-10	853,656	-4	197,772	-10
VFR	1980	7,534,090	-6	77,243	-5	617,189	+3	6,555,333	-7	284,005	-2
	1979	8,052,805	-3	81,304	-3	596,972	-4	7,085,205	-3	289,324	-13
	1978	8,321,176	(*)	83,808	+4	620,626	+5	7,285,078	(*)	331,664	-10
	1977	8,290,519	+1	80,772	+4	591,817	+3	7,249,695	+1	368,235	+3
	1976	8,198,960	+4	77,689	+1	576,837	+7	7,186,542	+5	357,892	-6

(*)Less than 0.5 percent.

TABLE 2.12--AIRCRAFT CONTACTED AT FLIGHT SERVICE FACILITIES, BY AVIATION CATEGORY--CALENDAR YEARS 1976-1980 - CONTINUED

	Year	Total	Annual change	Air Carrier	Annual change	Air Taxi	Annual change	General Aviation	Annual change	Military	Annual change
International Flight Service Stations	1980	761,023	+2	156,934	+21	214,371	-2	357,014	-4	32,704	+14
	1979	747,801	+7	130,217	+28	218,115	-13	370,877	+19	28,592	-7
	1978	696,519	+4	101,623	-14	251,860	+6	312,211	+9	30,825	-18
	1977	668,150	+50	118,124	+17	236,597	+90	287,283	+39	26,146	+90
	1976	444,988	+5	101,032	+36	124,223	-1	205,964	-2	13,769	-4
IFR-DVFR	1980	193,603	+17	154,274	+21	4,194	-7	29,609	+3	5,526	+3
	1979	165,805	+20	127,127	+26	4,520	+23	28,771	+5	5,387	-9
	1978	138,053	-12	101,061	-14	3,667	-15	27,427	-4	5,898	-8
	1977	156,488	+27	117,147	+18	4,308	+28	28,592	+73	6,441	+57
	1976	123,494	+30	99,477	+36	3,372	-4	16,552	+16	4,093	-6
VFR	1980	567,420	-3	2,660	-14	210,177	-2	327,405	-5	27,178	-17
	1979	581,996	+4	3,090	+450	213,595	-14	342,106	+20	23,205	-7
	1978	558,466	+9	562	-43	248,193	+7	284,784	+10	24,922	+26
	1977	511,662	+59	977	-37	232,289	+92	258,691	+37	19,705	+104
	1976	321,494	-2	1,555	+31	120,851	-1	189,412	-3	9,676	-4

(*)LESS THAN 0.5 PERCENT.

TABLE 2.12--AIRCRAFT CONTACTED AT FLIGHT SERVICE FACILITIES, BY AVIATION CATEGORY--CALENDAR YEARS 1976-1980 - CONTINUED

	Year	Total	Annual change	Air Carrier	Annual change	Air Taxi	Annual change	General Aviation	Annual change	Military	Annual change
Combined Station/ Tower	1980	9,239	-85	165	-64	4,117	-87	5,074	-79	1,013	-81
	1979	61,358	-34	456	-31	31,894	-42	23,791	-21	5,217	-29
	1978	92,673	-34	661	-79	54,640	-14	29,980	-53	7,392	-29
	1977	140,948	-35	3,131	-46	63,865	+2	63,534	-53	10,418	-20
	1976	216,052	+8	5,852	+119	62,409	+30	134,751	(*)	13,040	-15
IFR-DVFR	1980	1,036	-67	159	-64	71	-93	669	+36	137	-79
	1979	3,107	-24	443	-28	974	-39	1,046	+8	644	-31
	1978	4,114	-56	612	-68	1,602	-33	970	-69	930	-52
	1977	9,357	-55	1,928	-64	2,377	-42	3,120	-60	1,932	-47
	1976	20,820	+34	5,294	+113	4,085	+159	7,812	-1	3,629	+3
VFR	1980	9,333	-84	6	-54	4,046	-87	4,405	-81	876	-81
	1979	58,251	-33	13	-74	31,920	-40	22,745	-22	4,573	-29
	1978	88,559	-33	49	-96	53,038	-14	29,010	-52	6,462	-24
	1977	131,591	-33	1,203	+116	61,488	+5	60,414	-52	8,486	-10
	1976	195,232	+7	558	+212	58,324	+26	126,939	(*)	9,411	-21

III. AIRPORTS

Information about U.S. civil and joint-use landing facilities (including airports, heliports, stolports, and seaplane bases) were furnished by the FAA Office of Airport Standards. This information was obtained through physical inspection and mail solicitations, and was reported on the Airport Master Record (Form FAA 5010-1) and FAA Landing Facilities Information Request on Airports, Heliports, Stolports, and Seaplane Bases (Forms 5010-2 and 5010-5).

TABLE 3.1

U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES ON RECORD WITH FAA: 1971 THROUGH 1980*

Year	Total	With Runway Lights	With Paved Runways	Airports of Entry
1971	12,070	3,759	4,176	64
1972	12,405	3,827	4,390	63
1973	12,700	3,880	4,527	60
1974	13,062	3,999	4,716	61
1975	13,251	4,171	4,865	62
1976	13,770	4,362	5,106	76
1977	14,117	4,483	5,313	70
1978	14,574	4,567	5,484	70
1979	14,746	4,631	5,618	60
1980	15,161	4,738	5,833	76

*Excludes landing rights airports.

TABLE 3.2

U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES, AND REPORTED ABANDONMENTS ON RECORD, BY FAA REGION AND STATE: DECEMBER 31, 1980

FAA Region and State	Total Aircraft Facilities	Airports	Heliports	Stolports	Seaplane Bases	Reported Abandonments During Year
Total	15,161	12,240	2,336	58	527	330
United States--total*	15,107	12,207	2,319	58	523	328
Alaskan--total	731	516	33	---	182	13
Central--total	1,340	1,246	80	4	10	32
Iowa	267	244	21	1	1	7
Kansas	377	359	12	2	4	7
Missouri	377	335	36	1	5	10
Nebraska	319	308	11	---	---	8
Eastern--total	1,971	1,396	501	9	65	47
Delaware	36	24	12	---	---	---
District of Columbia	18	2	16	---	---	---
Maryland	150	107	38	4	1	3
New Jersey	265	122	132	---	11	3
New York	471	365	75	1	30	14
Pennsylvania	694	503	172	2	17	16
Virginia	260	212	40	.	6	11
West Virginia	77	61	16	---	---	---
Great Lakes--total	3,253	2,761	376	8	108	45
Illinois	942	777	155	---	10	14
Indiana	347	306	38	1	2	4
Michigan	419	384	25	2	8	10
Minnesota	491	407	18	1	65	6
Ohio	652	516	126	3	7	6
Wisconsin	402	371	14	1	16	5
New England--total	542	348	120	6	68	8
Connecticut	108	55	44	2	7	2
Maine	162	114	6	1	41	1
Massachusetts	138	80	45	1	12	1
New Hampshire	52	38	9	---	5	1
Rhode Island	18	11	5	---	2	2
Vermont	64	50	11	2	1	1
Northwest--total	891	711	159	5	16	12
Idaho	197	178	16	---	3	2
Oregon	323	253	63	4	3	5
Washington	371	280	80	1	10	5

TABLE 3.2 (CONTINUED)

U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES, AND REPORTED ABANDONMENTS ON RECORD, BY FAA REGION AND STATE: DECEMBER 31, 1980

FAA REGION AND STATE	TOTAL AIRCRAFT FACILITIES	AIRPORTS	HELIPORTS	STOLPORTS	SEAPLANE BASES	REPORTED ABANDONMENTS DURING YEAR
PACIFIC-ASIA--TOTAL	65	53	12	---	---	4
HAWAII	50	38	12	---	---	4
SOUTH PACIFIC **	15	15	--	---	---	---
ROCKY MOUNTAIN--TOTAL	1,090	957	122	6	5	22
COLORADO	307	224	75	4	4	8
MONTANA	185	174	11	---	---	1
NORTH DAKOTA	229	226	3	---	---	7
SOUTH DAKOTA	159	154	4	1	---	4
UTAH	104	86	16	1	1	1
WYOMING	106	93	13	---	---	1
SOUTHERN--TOTAL	1,851	1,511	305	9	26	30
ALABAMA	163	136	27	---	---	2
FLORIDA	485	359	107	1	18	6
GEORGIA	288	243	41	3	1	9
KENTUCKY	128	102	26	---	---	---
MISSISSIPPI	171	159	12	---	---	1
NORTH CAROLINA	285	247	35	1	2	5
PUERTO RICO	32	16	15	---	1	2
SOUTH CAROLINA	132	124	8	---	---	---
TENNESSEE	160	123	32	4	1	5
VIRGIN ISLANDS	7	2	2	---	3	---
SOUTHWEST--TOTAL	2,263	1,904	325	4	30	78
ARKANSAS	156	154	1	---	1	15
LOUISIANA	289	170	98	---	21	12
NEW MEXICO	149	136	12	---	1	4
OKLAHOMA	294	278	15	---	1	7
TEXAS	1,375	1,166	199	4	6	40
WESTERN--TOTAL	1,164	837	303	7	17	39
ARIZONA	216	178	35	3	---	9
CALIFORNIA	825	558	248	3	16	29
NEVADA	123	101	20	1	1	1

* EXCLUDES PUERTO RICO, VIRGIN ISLANDS, AND SOUTH PACIFIC.

** AMERICAN SAMOA, GUAM AND TRUST TERRITORIES.

TABLE 3.3

U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES
ON RECORD BY TYPE OF OWNERSHIP
DECEMBER 31, 1980

FAA REGION AND STATE	TOTAL FACILITIES	BY OWNERSHIP		PAVED AIRPORTS		UNPAVED AIRPORTS	
		PUBLIC	PRIVATE	LIGHTED	NOT LIGHTED	LIGHTED	NOT LIGHTED
TOTAL	15,161	4,814	10,347	3,778	2,055	960	8,368
UNITED STATES--TOTAL*	15,107	4,785	10,322	3,762	2,034	959	8,352
ALASKAN--TOTAL	731	515	216	44	16	62	609
CENTRAL--TOTAL	1,340	456	884	385	79	139	737
IOWA	267	118	149	97	15	56	99
KANSAS	377	128	249	101	16	37	223
MISSOURI	377	116	261	115	33	24	205
NEBRASKA	319	94	225	72	15	22	210
EASTERN--TOTAL	1,971	307	1,664	408	310	123	1,130
DELAWARE	36	3	33	6	6	10	14
DISTRICT OF COLUMBIA	18	8	10	6	8	---	4
MARYLAND	150	23	127	37	28	10	75
NEW JERSEY	265	31	234	49	53	14	149
NEW YORK	471	73	398	98	69	35	269
PENNSYLVANIA	694	78	616	110	97	40	447
VIRGINIA	260	63	197	72	33	11	144
WEST VIRGINIA	77	28	49	30	16	3	28
GREAT LAKES--TOTAL	3,253	692	2,561	641	224	286	2,102
ILLINOIS	942	99	843	107	65	67	703
INDIANA	347	74	273	85	24	36	202
MICHIGAN	419	134	285	119	24	47	229
MINNESOTA	491	150	341	96	11	41	343
OHIO	652	133	519	136	78	62	376
WISCONSIN	402	102	300	98	22	33	249
NEW ENGLAND--TOTAL	542	142	400	130	106	10	296
CONNECTICUT	108	16	92	27	32	1	48
MAINE	162	48	114	27	14	4	117
MASSACHUSETTS	138	34	104	41	39	3	55
NEW HAMPSHIRE	52	16	36	17	13	2	20
RHODE ISLAND	18	8	10	8	3	---	7
VERMONT	64	20	44	10	5	---	49
NORTHWEST--TOTAL	891	338	553	197	148	57	489
IDAHO	197	127	70	38	22	4	133
OREGON	323	94	229	65	56	18	184
WASHINGTON	371	117	254	94	70	35	172

TABLE 3.3 (CONTINUED)

U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES
ON RECORD BY TYPE OF OWNERSHIP
DECEMBER 31, 1980

FAA REGION AND STATE	TOTAL FACILITIES	BY OWNERSHIP		PAVED AIRPORTS		UNPAVED AIRPORTS	
		PUBLIC	PRIVATE	LIGHTED	NOT LIGHTED	LIGHTED	NOT LIGHTED
PACIFIC-ASIA--TOTAL	65	30	35	15	32	2	16
HAWAII	50	17	33	11	27	1	11
SOUTH PACIFIC**	15	13	2	4	5	1	5
ROCKY MOUNTAIN--TOTAL	1,090	479	611	297	117	92	584
COLORADO	307	88	219	69	53	18	167
MONTANA	185	118	67	65	13	16	91
NORTH DAKOTA	229	98	131	54	9	27	139
SOUTH DAKOTA	159	73	86	40	5	29	85
UTAH	104	58	46	41	21	---	42
WYOMING	106	44	62	28	16	2	60
SOUTHERN--TOTAL	1,851	737	1,114	671	265	99	816
ALABAMA	163	100	63	92	32	4	35
FLORIDA	485	132	353	124	69	28	264
GEORGIA	288	123	165	110	34	11	133
KENTUCKY	128	62	66	51	29	7	41
MISSISSIPPI	171	78	93	68	21	9	73
NORTH CAROLINA	285	85	201	86	28	22	149
PUERTO RICO	32	12	20	10	16	---	6
SOUTH CAROLINA	132	63	69	53	10	14	55
TENNESSEE	160	78	82	75	26	4	55
VIRGIN ISLANDS	7	4	3	2	--	---	5
SOUTHWEST--TOTAL	2,263	666	1,597	655	399	65	1,144
ARKANSAS	156	77	79	69	16	6	65
LOUISIANA	289	76	213	74	58	6	151
NEW MEXICO	149	64	85	46	24	1	78
OKLAHOMA	294	132	162	117	32	12	133
TEXAS	1,375	317	1,058	349	269	40	717
WESTERN--TOTAL	1,164	452	712	335	359	25	445
ARIZONA	216	94	122	61	42	8	105
CALIFORNIA	825	297	528	253	290	14	268
NEVADA	123	61	62	21	27	3	72

*EXCLUDES PUERTO RICO, VIRGIN ISLANDS, AND SOUTH PACIFIC.

**AMERICAN SAMOA, GUAM AND TRUST TERRITORIES.

TABLE 3.4

U.S. CIVIL AND JOINT-USE AIRPORTS, STOLPORTS, AND SEAPLANE BASES
ON RECORD BY LENGTH OF LONGEST RUNWAY, BY FAA REGION AND STATE: DECEMBER 31, 1980

FAA Region and State	Total	Under 3,000	3,000-3,999	4,000-4,999	5,000-5,999	6,000-6,999	7,000-7,999	8,000-8,999	9,000-9,999	10,000- & over
Total	15,161	9,758	2,595	1,088	797	515	166	112	66	266
United States--total*	15,107	9,727	2,592	1,085	792	510	163	111	64	263
Alaskan--total	731	389	74	58	73	21	13	11	4	78
Central--total	1,340	941	255	65	31	17	12	7	2	10
Iowa	267	185	53	16	3	5	1	2	1	1
Kansas	377	264	72	16	13	1	7	1	---	5
Missouri	377	270	70	13	9	7	2	1	---	5
Nebraska	319	222	60	20	6	4	2	3	1	1
Eastern--total	1,971	1,562	190	69	65	26	14	10	8	27
Delaware	36	29	3	2	1	---	1	---	---	---
District of Columbia	18	16	---	---	---	1	---	---	---	1
Maryland	150	123	16	6	3	---	---	1	1	---
New Jersey	265	223	21	4	10	---	3	1	1	2
New York	471	344	50	20	18	9	4	3	4	19
Pennsylvania	694	591	49	19	16	7	3	2	2	5
Virginia	260	187	38	14	12	5	1	3	---	---
West Virginia	77	49	13	4	5	4	2	---	---	---
Great Lakes--total	3,253	2,459	432	122	97	50	20	18	10	45
Illinois	942	833	65	14	12	9	1	4	---	4
Indiana	347	256	52	15	12	4	2	1	2	3
Michigan	419	279	82	15	20	11	6	---	1	5
Minnesota	491	308	88	19	28	13	5	5	2	25
Ohio	652	497	84	40	16	7	1	3	5	1
Wisconsin	402	286	61	19	9	6	5	7	2	7
New England--total	542	378	49	30	40	13	7	5	2	20
Connecticut	108	91	3	6	5	---	1	---	1	1
Maine	162	91	17	14	12	7	3	1	---	17
Massachusetts	138	98	15	6	12	3	1	1	1	1
New Hampshire	52	33	8	---	7	2	1	---	---	1
Rhode Island	18	12	1	2	1	1	---	1	---	---
Vermont	64	53	5	2	3	---	1	---	---	---
Northwest--total	891	615	129	63	47	12	6	1	5	13
Idaho	197	102	45	29	13	2	1	---	3	2
Oregon	323	237	37	21	15	7	1	1	---	4
Washington	371	276	47	13	19	3	4	---	2	7

TABLE 3.4 (CONTINUED)

U.S. CIVIL AND JOINT-USE AIRPORTS, STOLPORTS, AND SEAPLANE BASES
ON RECORD BY LENGTH OF LONGEST RUNWAY, BY FAA REGION AND STATE: DECEMBER 31, 1980

FAA REGION AND STATE	TOTAL	UNDER 3,000	3,000-3,999	4,000-4,999	5,000-5,999	6,000-6,999	7,000-7,999	8,000-8,999	9,000-9,999	10,000- & OVER
PACIFIC-ASIA--TOTAL	65	42	4	3	4	6	1	1	2	1
HAWAII	50	38	3	2	2	3	---	---	1	1
SOUTH PACIFIC**	15	4	1	1	2	3	1	1	2	---
ROCKY MOUNTAIN--TOTAL	1,090	514	254	152	80	57	21	15	8	11
COLORADO	307	140	58	51	29	11	6	7	1	4
MONTANA	185	70	67	25	12	2	---	2	4	3
NORTH DAKOTA	229	156	50	13	4	2	2	1	1	---
SOUTH DAKOTA	159	95	38	16	2	5	2	1	---	---
UTAH	104	20	22	25	20	9	5	---	1	2
WYOMING	106	33	19	22	13	8	6	2	1	2
SOUTHERN--TOTAL	1,851	988	446	177	126	42	24	21	10	17
ALABAMA	163	64	48	24	13	5	1	5	2	1
FLORIDA	485	284	84	43	33	15	8	6	1	11
GEORGIA	288	151	79	23	25	4	1	3	1	1
KENTUCKY	128	82	20	12	7	5	1	---	1	---
MISSISSIPPI	171	71	66	17	8	3	2	3	1	---
NORTH CAROLINA	285	172	66	26	8	5	5	2	---	1
PUERTO RICO	32	24	2	1	3	---	--	---	---	2
SOUTH CAROLINA	132	59	43	8	15	2	2	1	2	---
TENNESSEE	160	78	38	22	14	3	2	1	2	---
VIRGIN ISLANDS	7	3	---	1	---	---	2	---	---	1
SOUTHWEST--TOTAL	2,263	1,216	557	215	152	47	30	14	8	24
ARKANSAS	156	75	47	11	13	8	1	1	---	---
LOUISIANA	289	178	63	14	14	5	2	2	1	10
NEW MEXICO	149	32	25	31	35	10	10	2	---	4
OKLAHOMA	294	161	85	19	17	4	3	1	2	2
TEXAS	1,375	770	337	140	73	20	14	8	5	8
WESTERN--TOTAL	1,164	654	205	124	82	42	18	13	6	20
ARIZONA	216	83	47	45	20	9	6	3	---	3
CALIFORNIA	825	530	144	54	42	23	7	6	4	15
NEVADA	123	41	14	25	20	10	5	4	2	2

*EXCLUDES PUERTO RICO, VIRGIN ISLANDS, AND SOUTH PACIFIC.

**AMERICAN SAMOA, GUAM AND TRUST TERRITORIES.

TABLE 3.5

U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES ON RECORD
BY FAA REGION AND STATE AND OTHER AREAS: DECEMBER 31, 1971 THROUGH 1980

FAA Region and State	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Total	12,070	12,405	12,700	13,062	13,251	13,770	14,117	14,574	14,746	15,161
United States--total*	12,028	12,362	12,656	13,019	13,207	13,728	14,069	14,525	14,693	15,107
Alaskan--total	762	766	766	766	769	762	763	756	734	731
Central--total	1,125	1,159	1,197	1,205	1,198	1,203	1,274	1,322	1,325	1,340
Iowa	241	244	246	248	241	250	253	257	258	267
Kansas	295	307	315	314	318	334	351	372	374	377
Missouri	313	319	341	346	343	358	365	371	374	377
Nebraska	276	289	295	297	296	301	305	322	319	319
Eastern--total	1,505	1,543	1,631	1,729	1,776	1,860	1,906	1,976	1,961	1,971
Delaware	25	30	30	32	32	32	32	32	35	36
District of Columbia	7	7	9	14	16	16	17	17	18	18
Maryland	91	99	107	123	128	135	142	148	144	150
New Jersey	189	192	207	222	222	239	254	263	266	265
New York	444	442	465	478	488	496	490	498	482	471
Pennsylvania	511	514	541	579	609	644	651	692	684	694
Virginia	192	209	220	227	230	240	249	255	256	260
West Virginia	46	50	52	54	51	58	71	71	76	77
Great Lakes--total	2,258	2,419	2,490	2,594	2,620	2,772	2,832	3,011	3,065	3,253
Illinois	652	749	773	829	831	867	876	901	891	942
Indiana	199	208	220	232	237	293	306	317	325	347
Michigan	376	383	401	403	400	421	413	418	413	419
Minnesota	266	276	279	295	301	312	336	420	468	491
Ohio	491	522	536	543	548	558	569	584	586	652
Wisconsin	274	281	281	292	303	321	332	371	382	402
New England--total	463	457	481	512	529	547	542	540	536	542
Connecticut	86	79	83	91	91	104	103	104	106	108
Maine	148	153	155	158	161	162	162	157	160	162
Massachusetts	116	117	125	131	139	141	139	140	137	138
New Hanpshire	54	46	50	56	58	57	54	55	52	52
Rhode Island	14	15	17	17	18	22	24	23	20	18
Vermont	45	47	51	59	62	61	60	61	61	64
Northwest--total	680	685	712	743	765	807	841	857	867	891
Idaho	169	169	170	174	181	187	190	190	194	197
Oregon	255	258	264	273	277	286	301	302	308	323
Washington	256	258	278	296	307	334	350	365	365	371

TABLE 3-5 (CONTINUED)

U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES ON RECORD
BY FAA REGION AND STATE AND OTHER AREAS: DECEMBER 31, 1971 THROUGH 1980

FAA REGION AND STATE	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
PACIFIC-AISA--TOTAL	69	60	59	60	62	66	69	72	69	65
HAWAII	58	48	46	47	47	51	53	56	54	50
SOUTH PACIFIC**	11	12	13	13	15	15	16	12	11	15
ROCKY MOUNTAIN--TOTAL	871	869	872	895	898	947	961	992	1,049	1,090
COLORADO	217	214	220	228	230	255	261	272	301	307
MONTANA	180	176	167	168	167	172	169	172	177	185
NORTH DAKOTA	191	193	194	196	198	209	211	217	221	229
SOUTH DAKOTA	114	114	115	124	125	131	134	142	153	159
UTAH	85	87	92	93	90	90	93	95	100	104
WYOMING	84	85	84	86	88	90	93	94	97	106
SOUTHERN--TOTAL	1,365	1,397	1,409	1,436	1,474	1,555	1,666	1,719	1,765	1,851
ALABAMA	130	128	127	126	129	131	142	147	156	163
FLORIDA	323	329	332	341	355	391	438	454	458	485
GEORGIA	218	231	232	236	248	262	275	278	283	288
KENTUCKY	73	76	80	81	87	90	97	101	112	128
MISSISSIPPI	130	134	138	141	145	148	154	160	165	171
NORTH CAROLINA	231	228	227	236	237	251	258	270	271	285
PUERTO RICO	27	27	27	26	25	23	27	27	32	32
SOUTH CAROLINA	116	120	120	117	116	123	126	126	127	132
TENNESSEE	113	120	122	128	128	132	144	150	155	160
VIRGIN ISLANDS	4	4	4	4	4	4	4	5	6	7
SOUTHWEST--TOTAL	1,913	1,986	2,020	2,046	2,070	2,087	2,123	2,227	2,227	2,263
ARKANSAS	151	155	161	161	165	166	167	167	167	156
LOUISIANA	240	260	278	286	281	280	282	291	291	289
NEW MEXICO	129	131	134	134	134	139	139	145	145	149
OKLAHOMA	265	273	278	273	277	285	285	292	292	294
TEXAS	1,128	1,167	1,169	1,192	1,213	1,217	1,250	1,332	1,332	1,375
WESTERN--TOTAL	1,059	1,064	1,063	1,076	1,090	1,124	1,140	1,148	1,148	1,164
ARIZONA	209	198	196	196	196	202	209	210	210	216
CALIFORNIA	746	754	753	769	781	804	813	819	819	825
NEVADA	104	112	114	111	113	118	118	119	119	123

*EXCLUDES PUERTO RICO, VIRGIN ISLANDS, AND SOUTH PACIFIC.

**AMERICAN SAMOA, GUAM AND TRUST TERRITORIES.

TABLE 3.6

AIRPORT DEVELOPMENT AND PROGRAM STATUS AS OF DECEMBER 31, 1980

FAA Region and State	Air Carrier			General Aviation		
	Total Federal Funds (000)	Total Airports	Total Projects	Total Federal Funds (000)	Total Airports	Total Projects
Total	3,430,041	714	4,035	$573,814	1,212	2,104
United States--total*	3,326,570	701	3,966	572,763	1,210	2,101
Alaskan--total	173,938	71	141	25,485	14	31
Central--total	175,312	52	272	45,677	113	153
Iowa	34,407	13	59	6,701	22	31
Kansas	36,774	16	61	10,416	26	33
Missouri	61,766	9	66	19,956	34	47
Nebraska	42,365	14	86	8,604	31	42
Eastern--total	465,231	80	603	72,760	108	242
Delaware	3,952	1	9	953	1	4
Maryland	29,415	5	30	7,223	9	19
New Jersey	53,165	7	63	12,931	8	27
New York	162,582	24	204	19,652	28	73
Pennsylvania	130,541	22	149	16,119	30	51
Virginia	50,552	12	90	9,743	22	45
West Virginia	35,024	9	58	6,139	10	23
Great Lakes--total	492,122	106	513	108,753	179	288
Illinois	139,715	25	119	18,521	38	72
Indiana	59,699	13	61	37,842	28	47
Michigan	113,263	24	127	16,191	30	42
Minnesota	44,558	16	70	12,361	33	35
Ohio	73,063	14	61	14,344	19	47
Wisconsin	61,824	14	75	9,494	31	45
New England--total	97,790	36	240	21,372	57	141
Connecticut	17,554	5	36	2,767	5	15
Maine	19,782	8	67	3,923	20	32
Massachusetts	40,028	11	77	9,693	19	66
New Hampshire	6,388	4	29	1,917	6	14
Rhode Island	8,208	4	9	1,721	1	2
Vermont	5,830	4	22	1,351	6	12
Northwest--total	148,800	37	199	27,110	71	134
Idaho	21,878	9	51	5,787	19	34
Oregon	54,795	11	63	9,655	26	43
Washington	72,127	17	85	11,668	26	57

TABLE 3.6 (CONTINUED)

AIRPORT DEVELOPMENT AND PROGRAM STATUS AS OF DECEMBER 31, 1980

FAA Region and State	Air Carrier			General Aviation		
	Total Federal Funds (000)	Total Airports	Total Projects	Total Federal Funds (000)	Total Airports	Total Projects
Pacific--Asia total	134,984	16	83	683	2	3
Hawaii	98,372	8	46	683	2	3
South Pacific**	36,612	8	37	---	---	---
Rocky Mountain--total	244,468	62	366	49,578	112	167
Colorado	89,141	16	81	20,423	18	40
Montana	38,893	15	90	6,515	25	26
North Dakota	25,583	7	46	5,870	20	25
South Dakota	27,032	9	71	5,510	16	21
Utah	35,822	5	28	6,422	18	31
Wyoming	27,997	10	50	4,838	15	24
Southern--total	672,504	108	678	89,371	238	388
Alabama	43,351	11	69	10,650	22	35
Florida	183,754	29	167	16,827	39	78
Georgia	123,710	12	73	14,094	43	57
Kentucky	44,882	7	64	9,519	17	28
Mississippi	34,826	12	69	9,182	42	67
North Carolina	78,732	13	90	12,577	27	54
Puerto Rico	20,239	3	18	1,051	2	3
South Carolina	30,657	8	34	7,559	22	34
Tennessee	65,733	11	80	7,912	24	32
Virgin Islands	46,620	2	14	---	---	---
Southwest--total	422,510	79	576	75,215	208	354
Arkansas	24,911	10	74	7,454	26	46
Louisiana	84,397	10	93	8,907	18	29
New Mexico	22,103	11	86	9,823	20	41
Oklahoma	59,970	13	84	9,447	52	83
Texas	231,129	35	239	39,584	92	155
Western--total	402,382	67	364	57,810	110	203
Arizona	68,834	14	65	11,290	22	35
California	286,257	49	268	41,279	75	146
Nevada	47,291	4	31	5,241	13	22

*Excludes Puerto Rico, Virgin Islands, and South Pacific.

**American Samoa, Guam and Trust Territories.

IV. AIR CARRIER PASSENGERS

Airport Activity of Certificated Route Air Carriers
(TABLES 4.1 - 4.11)

Commuters
(TABLES 4.12 - 4.15)

AIRPORT ACTIVITY OF CERTIFICATED ROUTE AIR CARRIERS

The data presented in this section of the chapter were obtained from quarterly reports submitted to the Civil Aeronautics Board (CAB) by the certificated route air carriers on Schedule T-3 (a) (b) (c), Airport Activity Statistics--Revenue Service. These statistics summarize revenue; passenger enplanements; aircraft departures; and tons of freight, express, and mail enplaned at the 628 certificated points in the 50 States, the District of Columbia, and other U.S. areas designated by the Federal Aviation Administration (FAA) receiving scheduled and nonscheduled service during calendar year 1980. Effective January 1, 1970, in accordance with CAB's stated definition for "Domestic Operations," operations between the 48 conterminous States, Alaska, and Hawaii have been reclassified as domestic.

Air traffic hubs are not airports; they are the cities and Standard Metropolitan Statistical Areas (SMSA) requiring aviation services. An SMSA is a county that contains at least one city of 50,000 population, or twin cities with a combined population of at least 50,000, plus any contiguous counties that are metropolitan in character and have similar economic and social relationships. These metropolitan areas constitute a primary focal point for the transportation research programs of the FAA, and the analyses of individual cities within an area are treated in relationship to the entire area. In those instances where two or more individually certificated communities are located in an SMSA, those communities are grouped under the SMSA definition throughout this publication.

Individual communities fall into four hub classifications as determined by each community's percentage of the total enplaned revenue passengers

in all services and all operations of U.S. certificated route air carriers within the 50 States, the District of Columbia, and other U.S. areas designated by the FAA. Classifications in this issue are based on 281,408,852 total enplaned revenue passengers.

The percentage and number of enplaned passengers in the hub classifications for calendar year 1980 are:

Hub Classification	Percentage of Total Enplaned Passengers	Number of Enplaned Passengers
Large (L)	1.00 or more	2,814,089 or more
Medium (M)	0.25 to 0.99	703,522 to 2,814,088
Small (S)	0.05 to 0.24	140,704 to 703,521
Nonhub (N)	less than 0.05	less than 140,703

For the 12-month period ending December 31, 1980, there were 142 air traffic hubs. These hubs represented 25.6 percent of the 628 certificated points in the 50 States, the District of Columbia, and other U.S. areas receiving air carrier service during the period. The dominance of the hubs in the air traffic patterns is brought out by the fact that of the 281,408,852 passenger enplanements during the period, 96.9 percent (272,737,327) were recorded at the 142 hubs, while the nonhubs accounted for only 3.1 percent (8,639,252). Of the 96.9 percent of the passenger enplanements recorded at the hubs, the 25 large hubs accounted for 70.2 percent, the 41 medium hubs accounted for 18.4 percent, and the 76 small hubs accounted for 8.3 percent.

Beginning in 1971, data for passenger enplanements included enplaned passengers in both domestic and international, and scheduled and nonscheduled service of the certificated route air carriers, for all types of aircraft for the 50 States, the District of Columbia, and other U.S. areas designated by the FAA.

AIR TRAFFIC HUBS
December 31, 1980

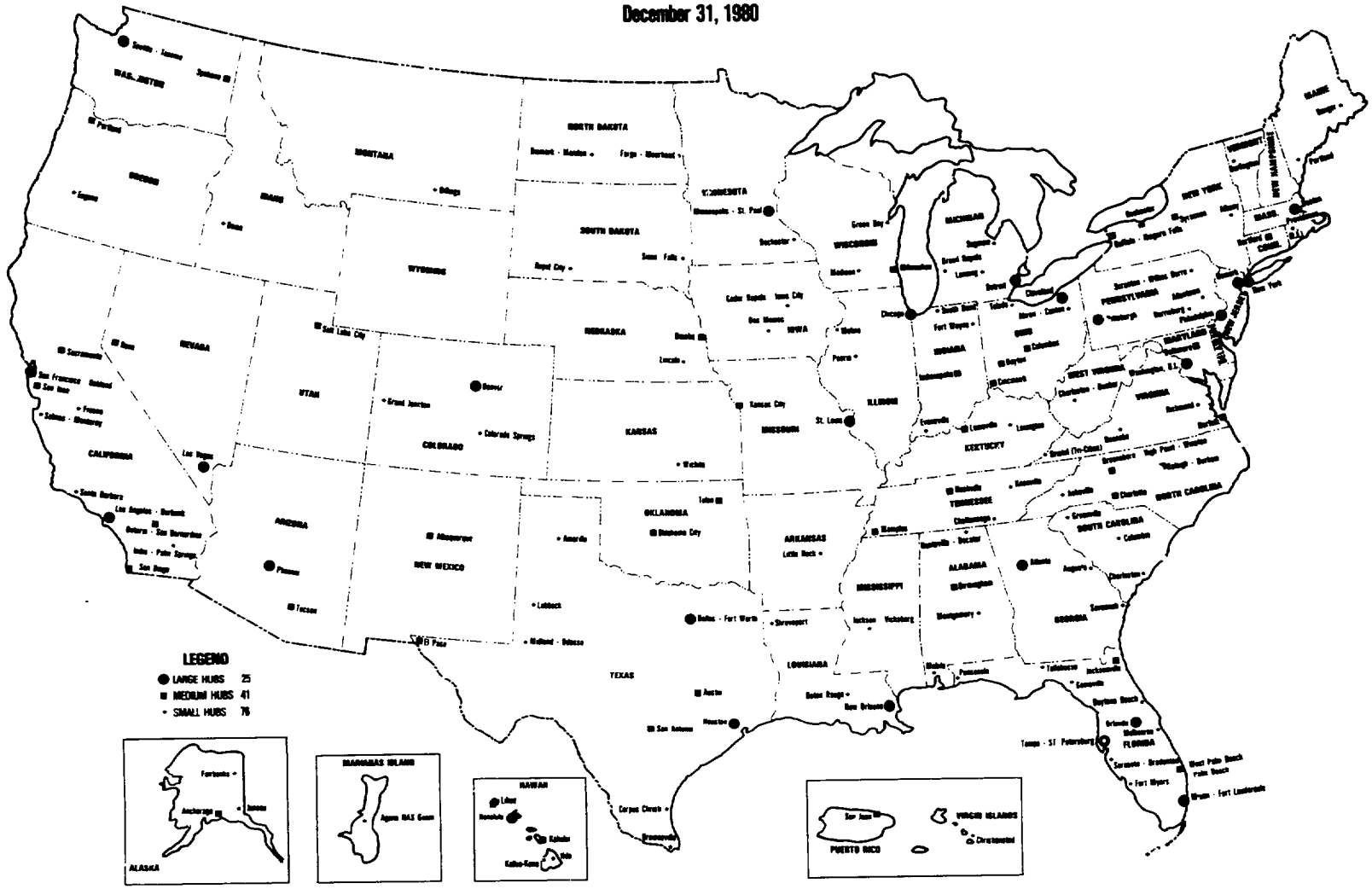


TABLE 4.1

CERTIFICATFD ROUTE AIR CARRIERS
AS OF DECEMBER 31, 1980

*Aeromech, Inc.
Air California, Inc.
Air Florida, Inc.
Air Midwest, Inc.
Air New England, Inc.
*Air North, Inc.
Air Wisconsin, Inc.
Airlift International, Inc.
Alaska Airlines, Inc.
Aloha Airlines, Inc.
Altair Airlines, Inc.
American Airlines, Inc.
Apollo Airways, Inc.
Aspen Airways, Inc.
Big Sky Airlines, Inc.
Braniff Airways, Inc.
*Cascade Airways, Inc.
Cochise Airlines, Inc.
Coleman Air Transport Corp.
Continental Air Lines, Inc.
Delta Air Lines, Inc.
Eastern Air Lines, Inc.
Empire Airlines, Inc.
Flying Tiger Line, Inc., The
Frontier Airlines, Inc.
*Golden Gate Airlines
Golden West Airlines, Inc.
*Great Northern Airlines
Hawaiian Airlines, Inc.
Hughes Air Corp.,
dba Hughes Airwest
*Imperial Airlines, Inc.
Kodiak Western Alaska
Airlines, Inc.
*Mid-South Aviation, Inc.
*Midway Airlines, Inc.
Mississippi Valley Airlines, Inc.
Munz Northern Airlines, Inc.
New Haven Airways, Inc.
*New York Air, Inc.
Northwest Airlines, Inc.
Ozark Air Lines, Inc.
Pacific Southwest Airlines, Inc.
Pan American World Airways, Inc.
Piedmont Aviation, Inc.
Reeve Aleutian Airways, Inc.
Republic Airlines, Inc.
Republic Airlines West, Inc.
Seaboard World Airlines, Inc.
Sky West Aviation, Inc.
Southwest Airlines Co.
Swift Aire Lines, Inc.
Texas International Airlines, Inc.
Trans World Airlines, Inc.
Transamerica Airlines, Inc.
United Air Lines, Inc.
U.S. Air, Inc., dba U.S. Air
Western Air Lines, Inc.
Wien Air Alaska, Inc.
Wright Air Lines, Inc.

*Carriers Certificated in 1980.

TABLE 4.2

AIRLINE TRAFFIC ENPLANED AT U.S. STATIONS
1971 THROUGH 1980*

YEAR	ENPLANED PASSENGERS			AIR CARRIER AIRCRAFT DEPARTURES	TONS OF ENPLANED MAIL	TONS OF ENPLANED CARGO
	TOTAL	DOMESTIC	INTER-NATIONAL			
(R)1971**	157,870,965	152,291,732	5,579,233	4,769,695	953,357.8	2,288,125.4
(R)1972	178,787,654	172,263,469	6,524,185	4,832,444	930,401.8	2,717,201.3
(R)1973	189,864,820	182,987,738	6,877,082	4,913,363	899,621.6	3,037,249.3
(R)1974	195,806,001	189,316,615	6,489,386	4,536,090	894,016.2	2.988,072.3
(R)1975	194,538,351	188,495,858	6,042,493	4,525,031	890,490.7	2,717,369.5
(R)1976	213,076,331	206,664,841	6,411,490	4,670,531	957,048.3	2,840,839.9
1977	229,344,987	222,589,589	6,755,398	4,781,923	997,473.3	3,031,518.1
1978	261,313,500	253,397,340	7,916,160	4,844,426	1,043,564.5	3,244,108.8
1979	296,132,661	286,880,624	9,252,037	5,094,736	1,071,071.8	3,122,796.4
1980	278,957,991	269,585,572	9,372,419	5,131,204	1,520,132.5	3,504,028.3

* THESE DATA INCLUDE DOMESTIC ALL-CARGO FIGURES WHICH ARE SHOWN IN TABLE 4.6

** FISCAL YEAR DATA

(R) REVISED

NOTE: DATA INCLUDE SCHEDULED AND NONSCHEDULED OPERATIONS.
TABLE WAS REARRANGED AND NOW INCLUDES DOMESTIC AND INTERNATIONAL BREAKDOWN FOR 'ENPLANED PASSENGERS.'

SOURCE: CAB-FAA "AIRPORT ACTIVITY STATISTICS OF CERTIFICATED ROUTE AIR CARRIERS."

TABLE 4.3

AMERICAN FLAG AIRLINE TRAFFIC ENPLANED AT TERRITORIAL U.S. STATIONS
1971 THROUGH 1980*

YEAR	ENPLANED PASSENGERS			AIR CARRIER AIRCRAFT DEPARTURES	TONS OF ENPLANED MAIL	TONS OF ENPLANED CARGO
	TOTAL	DOMESTIC	INTER-NATIONAL			
1971*	2,192,217	41,586	2,150,631	39,445	3,714.3	32,199.1
1972	2,524,395	29,572	2,494,823	41,495	4,310.1	37,397.2
1973	2,622,340	40,641	2,581,699	46,080	(R)5,108.6	(R)40,547.9
1974	2,601,804	**182	2,601,622	35,906	5,639.3	45,922.6
1975	2,243,793	--	2,243,793	30,485	5,807.1	4,7394.0
1976	2,258,714	--	2,258,714	28,559	5,551.2	48,329.3
1977	2,358,039	--	2,358,039	27,511	6,212.7	55,971.6
1978	2,713,246	--	2,713,246	29,040	5,919.4	59,188.7
1979	2,901,802	3,240	2,898,562	31,388	5,660.7	60,788.1
1980	2,450,861	454	2,450,407	25,644	5,992.8	58,159.1

* FISCAL YEAR DATA

** 1974 DOMESTIC TOTAL IS FOR SCHEDULED OPERATIONS ONLY.

(R) REVISED

NOTE: DATA INCLUDE SCHEDULED AND NONSCHEDULED OPERATIONS.
TABLE WAS REARRANGED AND NOW INCLUDES DOMESTIC AND INTERNATIONAL BREAKDOWN FOR 'ENPLANED PASSENGERS.'

SOURCE: CAB-FAA "AIRPORT ACTIVITY STATISTICS OF CERTIFICATED ROUTE AIR CARRIERS."

TABLE 4.4

AMERICAN FLAG AIRLINE TRAFFIC ENPLANED AT FOREIGN STATIONS: 1971 THROUGH 1980*

Year	Enplaned Passengers			Air Carrier Aircraft Departures	Tons of Enplaned Mail	Tons of Enplaned Cargo
	Total	Domestic	International			
1971**	11,852,243	1,333,118	10,519,125	229,164	80,457.5	293,380.1
1972	12,357,957	1,496,695	10,861,262	223,865	61,506.7	361,157.3
1973	12,614,201	1,822,134	10,792,067	224,793	71,413.6	366,634.1
1974	11,787,449	1,878,916	9,908,533	203,980	68,958.2	367,988.3
1975	10,908,448	1,946,322	8,962,126	189,918	62,206.1	363,510.7
1976	11,575,637	2,156,129	9,419,508	183,431	62,557.5	390,220.0
1977	12,319,732	2,413,989	9,905,743	178,711	63,124.1	384,406.4
1978	13,556,828	2,691,315	10,865,513	174,416	57,401.5	386,444.9
1979	15,422,473	3,018,989	12,403,484	181,857	54,902.0	400,667.0
1980	15,452,058	3,200,402	12,251,656	176,050	56,989.0	417,574.6

* Includes operations of certificated all-cargo carriers.

** Fiscal Year data

NOTE: Data include scheduled and nonscheduled operations.
Table was rearranged and now includes domestic and international breakdown for 'Enplaned Passengers.'

Source: CAB-FAA "Airport Activity Statistics of Certificated Route Air Carriers."

TABLE 4.5

HELICOPTER TRAFFIC ENPLANED AT U.S. STATIONS
1971 THROUGH 1980

Year	Number of Enplaned Passengers	Air Carrier Aircraft Departures	Tons of Enplaned Mail	Tons of Enplaned Cargo
1971*	544,368	79,518	302.8	963.2
1972	588,288	79,979	200.5	969.2
1973	614,952	83,152	154.7	737.9
1974	591,830	80,743	163.5	418.3
1975	505,827	67,923	201.7	210.3
1976	443,651	54,123	109.0	148.8
1977	268,023	35,305	81.1	52.3
1978	282,539	31,779	54.9	53.5
1979	0	0	0	0
1980	0	0	0	0

*Fiscal year data.

NOTE: Data include scheduled and nonscheduled operations.
No helicopter carriers operated during 1979 and 1980.

Source: CAB-FAA "Airport Activity Statistics of Certificated Route Air Carriers."

TABLE 4.6

TOTAL ALL-CARGO AIRLINE TRAFFIC ENPLANED AT U.S. STATIONS
1971 THROUGH 1980*

YEAR	TONS OF ENPLANED CARGO			TONS OF ENPLANED MAIL			(R) AIR CARRIER AIRCRAFT DEPARTURES	(R) ENPLANED PASSENGERS
	TOTAL	DOMESTIC	INTER-NATIONAL	TOTAL	DOMESTIC	INTER-NATIONAL		
1971**	292,912.8	150,970.7	141,942.2	50,520.1	8,823.7	41,696.4	26,959	111,285
1972	416,286.2	217,611.8	198,674.4	37,452.9	6,993.3	30,459.6	28,756	65,905
1973	517,311.9	306,600.9	210,711.0	48,934.5	16,589.7	32,344.8	31,096	58,395
1974	573,810.4	321,405.3	252,405.1	44,368.2	16,086.5	28,281.7	31,181	23,680
1975	537,500.2	284,131.9	253,368.3	38,831.6	10,021.6	28,809.9	28,585	43,591
1976	538,569.7	285,332.5	253.237.4	37,880.7	8,466.7	29,414.0	25,771	37,340
1977	578,053.8	332,200.2	245,853.6	37,423.5	9,525.8	27,897.7	25,375	16,020
1978	769,549.1	495,296.0	274,253.1	45,221.5	17,443.3	27,778.2	32,314	21,151
1979	839,299.5	574,185.3	265,114.2	35,015.4	14,614.2	20,401.2	31,135	5,518
1980	861,678.6	582,757.4	278,921.2	39,370.8	16,769.5	22,601.3	29,855	3,202

* THESE DATA ARE INCLUDED IN TABLE 4.2

** FISCAL YEAR DATA

(R) REVISED

NOTE: DATA INCLUDE SCHEDULED AND NONSCHEDULED OPERATIONS.
TABLE WAS REARRANGED AND NOW INCLUDES DOMESTIC AND INTERNATIONAL 'TONS OF ENPLANED CARGO' AND 'TONS OF ENPLANED MAIL.'

SOURCE: CAB-FAA "AIRPORT ACTIVITY STATISTICS OF CERTIFICATED ROUTE AIR CARRIERS."

Table 4.7

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, BY CARRIER GROUP, AND BY AIR CARRIER

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Carrier Group Air Carrier Type of Operation Type of Service	Aircraft departure			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	US Mail		Foreign mail
								Priority	Nonpriority	
No.	1	2	3	4	5	6	7	8	9	10
	TRUNK CARRIERS									
1	AMERICAN									
2	DOMESTIC----------SCHEDULED	312155	313370	311033	23011794	289860.73	6618.10	79050.27	45101.56	
3	NONSCHEDULED	967			96341	13.01				
4	ALL SERVICES	313122	313370	311033	23107835	289890.80	6618.10	79050.27	45106.56	
5										
6	INTERNATIONAL-----SCHEDULED	29498	28456	28147	2823559	62368.63		3415.96	2495.47	
7	NONSCHEDULED	178			24625	12.97				
8	ALL SERVICES	29676	28456	28147	2848184	62381.60		3415.96	2495.47	
9										
10	TOTAL----------SCHEDULED	341653	341826	339180	25835353	352249.42	6618.10	82466.23	47502.03	
11	NONSCHEDULED	1145			120966	22.98				
12	ALL SERVICES	342798	341826	339180	25956019	352272.40	6618.10	82466.23	47502.03	
13										
14	BRANIFF									
15	DOMESTIC----------SCHEDULED	177222	178574	176801	10410942	58166.13	878.31	50986.48	1.77	
16	NONSCHEDULED	413			29449					
17	ALL SERVICES	177635	178574	176801	10440391	58166.13	878.31	50986.48	1.77	
18										
19	INTERNATIONAL-----SCHEDULED	21072	21079	20821	1736419	25390.98		3883.60	319.50	230.06
20	NONSCHEDULED	163			10236					
21	ALL SERVICES	21235	21079	20821	1748655	25390.98		3883.60	319.50	230.06
22										
23	TOTAL----------SCHEDULED	198294	199653	197622	12149361	83557.05	878.31	54870.08	321.27	230.06
24	NONSCHEDULED	576			39685					
25	ALL SERVICES	198870	199653	197622	12189046	83557.05	878.31	54870.08	321.27	230.06
26										
27	CONTINENTAL									
28	DOMESTIC----------SCHEDULED	128846	130464	128413	8046839	109977.43	361.01	23257.19	2179.72	
29	NONSCHEDULED	82			11730					
30	ALL SERVICES	128928	130464	128413	8058569	109977.43	361.01	23257.19	2179.72	
31										
32	INTERNATIONAL-----SCHEDULED	6809	6889	6719	378326	8356.01		1439.21	.66	90.71
33										
34	TOTAL----------SCHEDULED	135655	137353	135132	8425165	118333.44	361.01	24696.40	2180.38	90.71
35	NONSCHEDULED	82			11730					
36	ALL SERVICES	135737	137353	135132	8436895	118333.44	361.01	24696.40	2180.38	90.71
37										
38	DELTA									
39	DOMESTIC----------SCHEDULED	530330	532227	529358	37692311	228113.54	1007[illegible].37	168236.40		.11
40	NONSCHEDULED	236			12691					
41	ALL SERVICES	530566	532227	529358	37705002	228110.54	1007[illegible].37	168236.40		.11
42										
43	INTERNATIONAL-----SCHEDULED	5658	5709	5685	905330	12400.57	177.89	1367.97		243.71
44	NONSCHEDULED	11			708					
45	ALL SERVICES	5705	5709	5685	906038	12400.57	177.89	1367.97		243.71
46										
47	TOTAL----------SCHEDULED	536028	537936	535043	38597641	240511.11	10256.26	169604.37		243.82
48	NONSCHEDULED	247			13399					
49	ALL SERVICES	536275	537936	535043	38611040	240511.11	10256.26	169604.37		243.82
50										
51	EASTERN									
52	DOMESTIC----------SCHEDULED	514283	511198	503771	34917538	164804.62	11920.08	106547.59	9856.95	
53	NONSCHEDULED	57			3446					
54	ALL SERVICES	514340	511198	503771	34920984	164804.62	11920.08	106547.59	9856.95	
55										
56	INTERNATIONAL-----SCHEDULED	40621	40709	40189	4573524	59969.08	531.78	7766.16	1750.84	11.18
57	NONSCHEDULED	27			685					
58	ALL SERVICES	40648	40709	40189	4574209	59969.08	531.78	7766.16	1750.84	11.18
59										
60	TOTAL----------SCHEDULED	554904	551907	543960	39491062	224773.70	12451.86	114313.75	11607.79	11.18
61	NONSCHEDULED	84			4131					
62	ALL SERVICES	554988	551907	543960	39495193	224773.70	12451.86	114313.75	11607.79	11.18
63										
64	NORTHWEST									
65	DOMESTIC----------SCHEDULED	160356	163704	159852	9932558	146379.40	1230.20	42516.90	22249.39	949.20
66	NONSCHEDULED	144			19564	117.25				
67	ALL SERVICES	160500	163704	159852	9952122	146496.65	1230.20	42516.90	22249.39	949.20
68										
69	INTERNATIONAL-----SCHEDULED	11505	11913	11377	1568136	81714.57		10522.98	7585.90	1619.86
70	NONSCHEDULED	30			69	250.17				
71	ALL SERVICES	11535	11913	11377	1568205	81964.74		10522.98	7585.90	1619.86
72										
73	TOTAL----------SCHEDULED	171861	175617	171229	11900694	228093.97	1230.20	53039.88	29835.29	2569.06
74	NONSCHEDULED	174			19633	367.42				
75	ALL SERVICES	172035	175617	171229	11920327	228461.39	1230.20	53039.88	29835.29	2569.06
76										
77	PAN AMERICAN									
78	DOMESTIC----------SCHEDULED	98367	99697	97109	7051982	83495.76	302.40	19166.24	2583.74	113.44
79	NONSCHEDULED	228			35888					
80	ALL SERVICES	98595	99697	97109	7087670	83495.76	302.40	19166.24	2583.74	113.44
81										
82	INTERNATIONAL-----SCHEDULED	69559	69437	67416	8163929	262632.48	4.74	27551.71	9882.02	11995.27
83	NONSCHEDULED	1469			173104	7764.25				
84	ALL SERVICES	71028	69437	67416	8337033	270396.73	4.74	27551.71	9882.02	11995.27
85										
86	TOTAL----------SCHEDULED	167866	169135	164525	15215911	346128.24	307.14	46717.95	12465.76	12108.71
87	NONSCHEDULED	1697			208992	7764.25				
88	ALL SERVICES	169563	168934	164525	15424903	353892.49	307.14	46717.95	12465.76	12108.71
89										
90										
91	TWA									
92	DOMESTIC----------SCHEDULED	237108	238026	235945	17724327	91080.07	987.58	58989.92	30261.63	3.46
93	NONSCHEDULED	35			3562					
94	ALL SERVICES	237143	238026	235945	17727889	91080.07	987.58	58989.92	30261.63	3.46
95										
96	INTERNATIONAL-----SCHEDULED	17693	17864	17543	2672253	35671.16		15870.52	2803.61	578.40
97	NONSCHEDULED	139			4637	.50				
98	ALL SERVICES	17832	17864	17543	2676890	35671.66		15870.52	2803.61	578.40
99										
100	TOTAL----------SCHEDULED	254801	255890	253488	20396580	126751.23	987.58	74860.44	33065.24	581.86
101	NONSCHEDULED	174			8199	.50				
102	ALL SERVICES	254975	255890	253488	20404779	126751.73	987.58	74860.44	33065.24	581.86
103										
104	UNITED									
105	DOMESTIC----------SCHEDULED	466092	470289	463375	32358284	343875.74	12017.05	132541.15	47348.60	
106	NONSCHEDULED	6215			666027	36.81				
107	ALL SERVICES	472307	470289	463375	33024311	343912.55	12017.05	132541.15	47348.60	
108										
109										
110										
111										
112										

Table 4.7 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, BY CARRIER GROUP, AND BY AIR CARRIER

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Carrier Group Air Carrier Type of Operation Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	US Mail		Foreign mail
								Priority	Nonpriority	
No.	1	2	3	4	5	6	7	8	9	10
1	WESTERN									
2	DOMESTIC----------SCHEDULED	136353	137868	135151	9251245	79133.75	2396.97	24292.45	13662.63	
3	NONSCHEDULED	109			17114					
4	ALL SERVICES	136462	137868	135151	9268359	79133.05	2396.97	24292.45	13662.63	
5										
6	INTERNATIONAL-----SCHEDULED	5367	5330	5302	624372	8327.03	14.19	518.21		
7										
8	TOTAL----------SCHEDULED	141740	143198	140453	9875617	87460.08	2411.16	24810.66	13662.63	
9	NONSCHEDULED	109			17114					
10	ALL SERVICES	141849	143198	140453	9892731	87460.08	2411.16	24810.66	13662.63	
11										
12	TOTAL, TRUNK CARRIERS									
13	DOMESTIC----------SCHEDULED	2761072	2775217	2740808	190397820	1594903.53	46790.07	705584.59	173252.99	1066.21
14	NONSCHEDULED	8466			893512	164.07				
15	ALL SERVICES	2769538	2775217	2740808	191293332	1595067.60	46790.07	705584.59	173252.99	1066.21
16										
17	INTERNATIONAL-----SCHEDULED	207842	207386	203199	23447848	556830.45	728.60	72336.32	24838.00	14769.19
18	NONSCHEDULED	2017			214064	8027.89				
19	ALL SERVICES	209859	207386	203199	23661912	564858.34	728.60	72336.32	24838.00	14769.19
20										
21	TOTAL----------SCHEDULED	2968914	2982603	2944007	213845668	2151733.98	47518.67	777920.91	198090.99	15835.40
22	NONSCHEDULED	10483			1109576	8191.96				
23	ALL SERVICES	2979397	2982603	2944007	214955244	2159925.94	47518.67	777920.91	198090.99	15835.40
24										
25	LOCAL SERVICE CARRIERS----------									
26										
27	FRONTIER									
28	DOMESTIC----------SCHEDULED	187949	192544	187466	6016873	23184.79	838.11	16523.63		
29	NONSCHEDULED	8			417					
30	ALL SERVICES	187957	192544	187466	6017290	23184.79	838.11	16523.63		
31										
32	HUGHES AIRWEST									
33	DOMESTIC----------SCHEDULED	99752	98613	93050	4176044	10524.80	465.37	6535.22	5.24	
34	NONSCHEDULED	261			14706					
35	ALL SERVICES	100013	98613	93050	4190750	10524.80	465.37	6535.22	5.24	
36										
37	OZARK									
38	DOMESTIC----------SCHEDULED	117266	120176	116935	3830644	11371.54	214.64	11291.50	19.89	
39	NONSCHEDULED	2028			78202					
40	ALL SERVICES	119294	120176	116935	3908846	11371.54	214.64	11291.50	19.89	
41										
42	PIEDMONT									
43	DOMESTIC----------SCHEDULED	168191	171359	167719	5707067	17181.58	341.40	11825.04		
44	NONSCHEDULED	1038			21911					
45	ALL SERVICES	169229	171359	167719	5728978	17181.58	341.40	11825.04		
46										
47	REPUBLIC									
48	DOMESTIC----------SCHEDULED	403900	410957	400506	11875436	45209.07	626.69	31107.36	4.68	
49	NONSCHEDULED	515			24056					
50	ALL SERVICES	404415	410957	400506	11899492	45209.07	626.69	31107.36	4.68	
51										
52	REPUBLIC WEST									
53	DOMESTIC----------SCHEDULED	32874	33468	29177	1307838	4181.94	233.67	3086.69	2.51	
54	NONSCHEDULED	46			1564					
55	ALL SERVICES	32920	33468	29177	1309402	4181.94	233.67	3086.69	2.51	
56										
57	TEXAS INTL									
58	DOMESTIC----------SCHEDULED	95241	98040	94835	4345429	9709.18	136.28	6310.51		58.42
59	NONSCHEDULED	1297			76590					
60	ALL SERVICES	96538	98040	94835	4422019	9709.18	136.28	6310.51		58.42
61										
62	US AIR									
63	DOMESTIC----------SCHEDULED	283621	286871	282854	14212764	35863.88	1374.95	47719.01		
64	NONSCHEDULED	954			51666					
65	ALL SERVICES	284575	286871	282854	14264430	35863.88	1374.95	47719.01		
66										
67	TOTAL, LOCAL SERVICE CARRIERS									
68	DOMESTIC----------SCHEDULED	1388794	1420028	1372542	51472095	157226.78	4231.11	134398.96	32.32	58.42
69	NONSCHEDULED	6151			269112					
70	ALL SERVICES	1394945	1420028	1372542	51741207	157226.78	4231.11	134398.96	32.32	58.42
71										
72	INTRA-ALASKA CARRIERS----------									
73										
74	ALASKA AIRLINES									
75	DOMESTIC----------SCHEDULED	23867	24385	23731	1070319	12924.51		5877.82	1377.29	
76	NONSCHEDULED	133			7073	67.87				
77	ALL SERVICES	24020	24385	23731	1077392	12992.38		5877.82	1377.29	
78										
79	ALASKA INTERNATIONA									
80	DOMESTIC----------SCHEDULED	835	868	816		1206.74		342.21	305.95	
81	NONSCHEDULED				1918	2.91				
82	ALL SERVICES	835	868	816	1918	1209.65		342.21	305.95	
83										
84	KODIAK AIRWAYS									
85	DOMESTIC----------SCHEDULED	13843	15967	10317	15373	339.83		642.60	231.73	
86	NONSCHEDULED	1929			2933	35.46	36.91	3.49		
87	ALL SERVICES	15772	15967	10317	18306	375.29	36.91	646.09	231.73	
88										
89	MINZ NORTHERN									
90	DOMESTIC----------SCHEDULED	1102	1132	973	1577	31.15		60.26		
91										
92	REEVE									
93	DOMESTIC----------SCHEDULED	4116	3815	3744	80403	2059.42		3303.21		
94	NONSCHEDULED	91			1734	100.64		2.44		
95	ALL SERVICES	4207	3815	3744	82137	2160.06		3305.65		
96										
97	WIEN AIR ALASKA									
98	DOMESTIC----------SCHEDULED	82841	64029	54354	765261	31032.13		21668.20	8343.07	
99	NONSCHEDULED	134			4183	601.99				
100	ALL SERVICES	82975	64029	54354	769444	31634.12		21668.20	8343.07	
101										
102	TOTAL, INTRA-ALASKA CARRIERS									
103	DOMESTIC----------SCHEDULED	126624	110196	93935	1932933	47593.78		31894.30	10258.04	
104	NONSCHEDULED	2287			17841	808.87	36.91	6.13		
105	ALL SERVICES	128911	110196	93935	1950774	48402.65	36.91	31900.43	10258.04	
106										
107	INTRA-HAWAII CARRIERS----------									
108										
109	ALOHA									
110	DOMESTIC----------SCHEDULED	37397	35312	31221	2689305	4878.52		2576.15	1051.40	
111	NONSCHEDULED	5			328					
112	ALL SERVICES	37402	35312	31221	2689633	4878.52		2576.15	1051.40	

Table 4.7 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, BY CARRIER GROUP, AND BY AIR CARRIER

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Carrier Group Air Carrier Type of Operation Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	U.S. Mail		Foreign mail
								Priority	Nonpriority	
No.	1	2	3	4	5	6	7	8	9	10
1	HAWAIIAN									
2	DOMESTIC----------SCHEDULED	40431	42367	36496	3291913	13289.64		2500.09	660.16	
3										
4	TOTAL, INTRA-HAWAII CARRIERS									
5	DOMESTIC----------SCHEDULED	77828	77679	67715	5981218	18168.16		5076.24	1711.56	
6	NONSCHEDULED	5			328					
7	ALL SERVICES	77833	77679	67715	5981546	18168.16		5076.24	1711.56	
8										
9	OTHER CARRIERS----------									
10										
11	AEROMECH, INC.									
12	DOMESTIC----------SCHEDULED	7727	7886	7456	50967	119279.00	667.00	25855.00		
13										
14	AIR CALIFORNIA									
15	DOMESTIC----------SCHEDULED	46823	48147	45900	2979751	2253.33	63.26			
16	NONSCHEDULED	220			20990					
17	ALL SERVICES	47043	48147	45900	3000741	2253.33	63.26			
18										
19	AIR FLORIDA									
20	DOMESTIC----------SCHEDULED	36315	36440	35691	1483155	48466.73	5985.30	276549.53		
21	NONSCHEDULED	2185			140447					
22	ALL SERVICES	38500	36440	35691	1623602	48466.73	5985.30	276549.53		
23										
24	AIR NORTH, INC.									
25	DOMESTIC----------SCHEDULED	20585	21866	20585	103313	140.43		2.70		
26										
27	AIR WISCONSIN									
28	DOMESTIC----------SCHEDULED	56294	56588	56244	667457	682.54		59.67		
29										
30	ALTAIR									
31	DOMESTIC----------SCHEDULED	20420	30902	20408	186918	42.10				
32										
33	APOLLO									
34	DOMESTIC----------SCHEDULED	17129	17460	16498	123255					
35										
36	ASPEN									
37	DOMESTIC----------SCHEDULED	14043	15356	13871	315572	267.02				
38	NONSCHEDULED	984			22464	15501.07				
39	ALL SERVICES	15027	15356	13871	338036	15768.09				
40										
41	BIG SKY									
42	DOMESTIC----------SCHEDULED	13694	14911	13694	41989	160.61				
43										
44	CASCADEAIRWAYS									
45	DOMESTIC----------SCHEDULED	27281	29659	27281	144608	235.42		116.57		
46	NONSCHEDULED	37			255					
47	ALL SERVICES	27318	29659	27281	144863	235.42		116.57		
48										
49	COLEMAN AIR TRANSP									
50	DOMESTIC----------SCHEDULED	406	412	406	2667	190.31				
51	NONSCHEDULED	68			136	44.35				
52	ALL SERVICES	474	412	406	2803	234.66				
53										
54	EMPIRE AIRLINES									
55	DOMESTIC----------SCHEDULED	9959	10185	9687	66373	13.00				
56	NONSCHEDULED	9			18					
57	ALL SERVICES	9968	10185	9687	66391	13.00				
58										
59	GOLDEN GATE									
60	DOMESTIC----------SCHEDULED	19034	20548	19034	215520					
61										
62	GOLDEN WEST									
63	DOMESTIC----------SCHEDULED	61201	65186	60476	676019	259.41		42.80		
64	NONSCHEDULED	28			326					
65	ALL SERVICES	61229	65186	60476	676345	259.41		42.80		
66										
67	IMPERIAL									
68	DOMESTIC----------SCHEDULED	9188	10882	8462	41995	18.00				
69	NONSCHEDULED	3			7					
70	ALL SERVICES	9191	10882	8462	42002	18.00				
71										
72	MID-SOUTH AVIATION									
73	DOMESTIC----------SCHEDULED	3097	3014	2938	14486					
74										
75	MIDWAY AIRLINES, INC									
76	DOMESTIC----------SCHEDULED	5555	5645	5555	234796					
77										
78	MISSISSIPPI VALLEY									
79	DOMESTIC----------SCHEDULED	24050	24050	24041	218158	123.80			25.20	
80										
81	NEW HAVEN AIRWAYS									
82	DOMESTIC----------SCHEDULED	7334	7704	7314	30153	6.09				
83	NONSCHEDULED	2157			8126	3.21				
84	ALL SERVICES	9491	7704	7314	38279	9.30				
85										
86	NEW YORK AIR, INC.									
87	DOMESTIC----------SCHEDULED	216	244	216	12658					
88										
89	PACIFIC SOUTHWEST									
90	DOMESTIC----------SCHEDULED	70066	72237	69772	6006318	12320.76		6196.70		
91	NONSCHEDULED	223			23745					
92	ALL SERVICES	70289	72237	69772	6029763	12320.76		6196.70		
93										
94	SOUTHWEST									
95	DOMESTIC----------SCHEDULED	91123	92339	91072	6837192					
96	NONSCHEDULED	25			2491					
97	ALL SERVICES	91148	92339	91072	6839683					
98										
99	SWIFT									
100	DOMESTIC----------SCHEDULED	17354	18217	17100	206239	146.19				
101	NONSCHEDULED	3			47					
102	ALL SERVICES	17357	18217	17100	206286	146.19				
103										
104	WRIGHT									
105	DOMESTIC----------SCHEDULED	5897	6031	5897	106564					
106	NONSCHEDULED	24			812					
107	ALL SERVICES	5921	6031	5897	107376					
108										
109	TOTAL, OTHER CARRIERS									
110	DOMESTIC----------SCHEDULED	582791	615909	577798	20765823	184600.76	6715.56	306822.94	25.20	
111	NONSCHEDULED	5966			219864	15548.63				
112	ALL SERVICES	588757	615909	577798	20985687	200149.39	6715.56	306822.94	25.20	

Table 4.7 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, BY CARRIER GROUP, AND BY AIR CARRIER

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Carrier Group Air Carrier Type of Operation Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	U.S. Mail		Foreign mail
								Priority	Nonpriority	
No.	1	2	3	4	5	6	7	8	9	10
1	REGIONAL CARRIERS									
2										
3	AIR MIDWEST									
3	DOMESTIC--SCHEDULED	47640	52959	47202	221469	756.93	19.25	104.86		
4	NONSCHEDULED	3			13					
5	ALL SERVICES	47643	52959	47202	221482	756.93	19.25	104.86		
6										
7										
8	AIR NEW ENGLAND									
8	DOMESTIC--SCHEDULED	41787	43113	41139	433077	360.87		579.46		
9	NONSCHEDULED	214			2322					
10	ALL SERVICES	41995	43113	41139	435399	360.87		579.46		
11										
12										
13	COCHISE									
13	DOMESTIC--SCHEDULED	21329	24469	19488	104462	171.89				
14	NONSCHEDULED	1			2847					
15	ALL SERVICES	21330	24469	19488	107309	171.89				
16										
17										
18	SKYWEST									
19	DOMESTIC--SCHEDULED	16514	16967	16347	69692	170.90		5.80		
20										
21	TOTAL, REGIONAL CARRIERS									
21	DOMESTIC--SCHEDULED	127270	137508	124176	828700	1460.59	19.25	690.12		
22	NONSCHEDULED	216			5182					
23	ALL SERVICES	127486	137508	124176	833882	1460.59	19.25	690.12		
24										
25	ALL-CARGO CARRIERS									
26										
27										
28	AIRLIFT									
29	DOMESTIC--SCHEDULED	1447	1436	1258		18549.42		2.73		
30	NONSCHEDULED	60				1830.21				
31	ALL SERVICES	1507	1436	1258		20379.63		2.73		
32										
33	INTERNATIONAL--SCHEDULED	1633	1862	1361		29968.86		90.14		
34	NONSCHEDULED	139			235	2595.47				
35	ALL SERVICES	1772	1862	1361	235	32564.33		90.14		
36										
37	TOTAL--SCHEDULED	3080	3298	2619		48518.28		92.87		
38	NONSCHEDULED	199			235	4425.68				
39	ALL SERVICES	3279	3298	2619	235	52943.96		92.87		
40										
41	FLYING TIGER									
42	DOMESTIC--SCHEDULED	18333	18326	16893		514353.11	4069.33	13490.17	3275.83	
43	NONSCHEDULED	51				1532.42				
44	ALL SERVICES	18384	18326	16893		515885.53	4069.33	13490.17	3275.83	
45										
46	INTERNATIONAL--SCHEDULED	3732	3824	3025		170022.21	2.78	4446.14	6983.00	
47	NONSCHEDULED	137			2967	6973.05				
48	ALL SERVICES	3869	3824	3025	2967	176995.26	2.78	4446.14	6983.00	
49										
50	TOTAL--SCHEDULED	22065	22150	19918		684375.32	4072.11	17936.31	10258.83	
51	NONSCHEDULED	188			2967	8505.47				
52	ALL SERVICES	22253	22150	19918	2967	692880.79	4072.11	17936.31	10258.83	
53										
54	SEABOARD									
55	DOMESTIC--SCHEDULED	1730	1730	1730		33012.71	9410.16	.72		
56										
57	INTERNATIONAL--SCHEDULED	2466	3067	2456		64206.10		4418.98	6663.07	
58	NONSCHEDULED	131				5152.73				
59	ALL SERVICES	2591	3067	2456		69358.83		4418.98	6663.07	
60										
61	TOTAL--SCHEDULED	4196	4797	4186		97218.81	9410.16	4419.70	6663.07	
62	NONSCHEDULED	131				5152.73				
63	ALL SERVICES	4321	4797	4186		102371.54	9410.16	4419.70	6663.07	
64										
65	TOTAL, ALL-CARGO CARRIERS									
66	DOMESTIC--SCHEDULED	21510	21492	19881		565915.24	13479.49	13493.62	3275.83	
67	NONSCHEDULED	111				3362.63				
68	ALL SERVICES	21621	21492	19881		569277.87	13479.49	13493.62	3275.83	
69										
70	INTERNATIONAL--SCHEDULED	7825	8753	6842		264197.17	2.78	8955.26	13646.07	
71	NONSCHEDULED	407			3202	14721.25				
72	ALL SERVICES	8232	8753	6842	3202	278918.42	2.78	8955.26	13646.07	
73										
74	TOTAL--SCHEDULED	29335	30245	26723		830112.41	13482.27	22448.88	16921.90	
75	NONSCHEDULED	518			3202	18083.88				
76	ALL SERVICES	29853	30245	26723	3202	848196.29	13482.27	22448.88	16921.90	
77										
78	ALL SERVICES									
79										
80	TRANSAMERICA									
81	INTERNATIONAL--SCHEDULED	384	441	332	65282	183.42		90.00	24.00	
82										
83	ALL SERVICES									
84										
85	INTERNATIONAL--SCHEDULED	384	441	332	65282	183.42		90.00	24.00	
86										
87	ALL SERVICES									
88										
89										
90										
91										
92	AIR FLORIDA									
93	INTERNATIONAL--SCHEDULED	4332	4437	4161	229805	473951.00	94.00	60808.00		
94	NONSCHEDULED	1000			114281					
95	ALL SERVICES	5332	4437	4161	344086	473951.00	94.00	60808.00		
96										
97	ALL SERVICES									
98										
99	INTERNATIONAL--SCHEDULED	4332	4437	4161	229805	473951.00	94.00	60808.00		
100	NONSCHEDULED	1000			114281					
101	ALL SERVICES	5332	4437	4161	344086	473951.00	94.00	60808.00		
102										
103	OVER-ALL TOTAL, ALL CARRIERS									
103	DOMESTIC--SCHEDULED	5065885	5158029	4996855	271378589	2569868.84	71235.48	1197860.77	188555.94	1124.63
104	NONSCHEDULED	23202			1407839	19884.20	36.91	6.13		
105	ALL SERVICES	5109691	5158029	4996855	272786428	2589753.04	71272.39	1197866.90	188555.94	1124.63
106										
107	INTERNATIONAL--SCHEDULED	220383	221017	214534	23742955	1295162.04	825.38	142189.58	38508.07	14769.19
108	NONSCHEDULED	3424			331547	22749.14				
109	ALL SERVICES	223807	221017	214534	24074462	1317911.18	825.38	142189.58	38508.07	14769.19
110										
111										
112										

Table 4.7 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, BY CARRIER GROUP, AND BY AIR CARRIER

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Carrier Group / Air Carrier / Type of Operation / Type of Service	Aircraft departures: Total performed	Aircraft departures: Scheduled	Aircraft departures: Scheduled completed	Enplaned passengers	Enplaned revenue tons: Freight	Enplaned revenue tons: Express	Enplaned revenue tons: US Mail: Priority	Enplaned revenue tons: US Mail: Nonpriority	Enplaned revenue tons: Foreign mail
	1	2	3	4	5	6	7	8	9	10
1	TOTAL -------------- SCHEDULED	5306272	5379046	5211389	295121524	3865030.88	72060.86	1340150.35	227064.01	15893.82
2	NONSCHEDULED	26626			1739386	42633.34	36.91	6.13	.	
3	ALL SERVICES	5332898	5379046	5211389	296860910	3907664.22	72097.77	1340156.48	227064.01	15893.82

Table 4.8

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, AND BY STATE AND COUNTRY

12 MONTHS ENDED DECEMBER 31,1980

Line No.	State or Country Type of Operation Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	US Mail		Foreign mail
								Priority	Nonpriority	
No.	1	2	3	4	6	6	7	8	9	10
1	50 U. S. STATES									
2										
3	ALABAMA									
4	DOMESTIC--SCHEDULED	49626	50204	49228	1622092	4282.24	221.74	4057.23	25.67	
5	NONSCHEDULED	54			2917					
6	ALL SERVICES	49680	50204	49228	1625009	4282.24	221.74	4057.23	25.67	
7										
8	ALASKA									
9	DOMESTIC--SCHEDULED	122036	105459	89334	1817741	108762.75	800.63	30431.20	12395.79	
10	NONSCHEDULED	2459			10464	801.98	36.91	6.13		
11	ALL SERVICES	124495	105459	89334	1828205	109564.73	837.54	30437.33	12395.79	
12										
13	INTERNATIONAL--SCHEDULED	846	784	765	13383	59937.79		2352.57	1094.87	22.25
14	NONSCHEDULED	49			966	1895.58				
15	ALL SERVICES	895	784	765	14349	61833.37		2352.57	1094.87	22.25
16										
17	TOTAL--SCHEDULED	122882	106243	90079	1831124	168680.54	800.63	32783.77	13490.66	22.25
18	NONSCHEDULED	2238			11430	2697.56	36.91	6.13		
19	ALL SERVICES	125060	106243	91079	1842554	191378.10	837.54	32789.90	13490.66	22.25
20										
21	ARIZONA									
22	DOMESTIC--SCHEDULED	99464	102658	95939	4321031	16947.76	562.72	8490.93	2197.69	
23	NONSCHEDULED	61			3361					
24	ALL SERVICES	99525	102658	95909	4324992	16947.76	562.72	8490.93	2197.69	
25										
26	ARKANSAS									
27	DOMESTIC--SCHEDULED	21579	22065	21156	769184	2199.94	93.57	2130.48	22.49	
28	NONSCHEDULED	10			626					
29	ALL SERVICES	21589	22065	21156	769810	2199.94	93.57	2130.48	22.49	
30										
31	CALIFORNIA									
32	DOMESTIC--SCHEDULED	535470	550607	526440	31167575	495964.56	14858.07	98652.68	30714.87	23.11
33	NONSCHEDULED	2344			96846	16044.05				
34	ALL SERVICES	537814	550607	526440	31264421	512008.61	14858.07	98652.68	30714.87	23.11
35										
36	INTERNATIONAL--SCHEDULED	5780	5799	5711	893034	17223.91	14.19	3469.55	590.86	48.46
37	NONSCHEDULED	17			697	391.51				
38	ALL SERVICES	5797	5799	5711	893731	17615.42	14.19	3469.55	590.86	48.46
39										
40	TOTAL--SCHEDULED	541[illegible]	556206	532151	34057609	513188.47	14872.26	102118.23	31305.73	71.57
41	NONSCHEDULED	2361			97543	16435.56				
42	ALL SERVICES	543611	556206	532151	34155152	529624.03	14872.26	102118.23	31305.73	71.57
43										
44	COLORADO									
45	DOMESTIC--SCHEDULED	181426	186797	180543	10264907	55266.06	1128.16	28827.59	3183.33	
46	NONSCHEDULED	435			14348					
47	ALL SERVICES	181861	186797	180543	10279255	55266.06	1128.16	28827.59	3183.33	
48										
49	CONNECTICUT									
50	DOMESTIC--SCHEDULED	28973	29289	28837	1404318	11427.02	320.36	6896.94	1277.66	.01
51	NONSCHEDULED	910			14072	2.60				
52	ALL SERVICES	29883	29289	28837	1418390	11429.62	320.36	6896.94	1277.66	.01
53										
54	DELAWARE									
55	DOMESTIC--SCHEDULED	765	1099	765	2231	.47				
56										
57	DIST. OF COL									
58	DOMESTIC--SCHEDULED	117975	116969	115045	7598516	32697.01	656.38	44251.04	19731.22	.94
59	NONSCHEDULED	358			9746	.23				
60	ALL SERVICES	118333	116969	115045	7608262	32697.24	656.38	44251.04	19731.22	.94
61										
62	INTERNATIONAL--SCHEDULED	851	842	831	144992	1939.01		2548.15	44.29	
63	NONSCHEDULED	35			2799					
64	ALL SERVICES	886	842	831	147791	1939.01		2548.15	44.29	
65										
66	TOTAL--SCHEDULED	118826	117811	115876	7743508	34636.02	656.38	46799.19	19775.51	.94
67	NONSCHEDULED	393			12545	.23				
68	ALL SERVICES	119219	117811	115876	7756053	34636.25	656.38	46799.19	19775.51	.94
69										
70	FLORIDA									
71	DOMESTIC--SCHEDULED	345398	346615	343157	20279833	128348.31	7576.96	243113.70	3391.31	53.70
72	NONSCHEDULED	2122			127707					
73	ALL SERVICES	347520	346615	343157	20407140	128348.31	7576.96	243113.70	3391.31	53.70
74										
75	INTERNATIONAL--SCHEDULED	18907	18977	18459	2122330	536718.27	300.54	69039.15	858.52	161.47
76	NONSCHEDULED	795			87208	1654.04				
77	ALL SERVICES	19702	18977	18459	2209538	538372.31	300.54	69039.15	858.52	161.47
78										
79	TOTAL--SCHEDULED	364305	365592	361616	22401763	665066.58	7877.50	312152.85	4249.83	215.17
80	NONSCHEDULED	2917			214915	1654.04				
81	ALL SERVICES	367222	365592	361616	22616678	666720.62	7877.50	312152.85	4249.83	215.17
82										
83	GEORGIA									
84	DOMESTIC--SCHEDULED	280758	282802	[illegible]9659	20389325	144931.04	8991.74	93718.49	111.71	.47
85	NONSCHEDULED	268			7952	105.02				
86	ALL SERVICES	281026	282802	279659	20397277	145038.06	8991.74	93718.49	111.71	.47
87										
88	INTERNATIONAL--SCHEDULED	2781	2798	2754	416775	7329.83	151.56	2116.98	14.28	
89	NONSCHEDULED	6			3					
90	ALL SERVICES	2787	2798	2754	416778	7329.83	151.56	2116.98	14.28	
91										
92	TOTAL--SCHEDULED	283539	285600	282413	20806100	152262.87	9143.30	95835.47	125.99	.47
93	NONSCHEDULED	274			7955	105.02				
94	ALL SERVICES	283813	285600	282413	20814055	152367.89	9143.30	95835.47	125.99	.47
95										
96	HAWAII									
97	DOMESTIC--SCHEDULED	89359	89207	79578	8443791	82171.59	272.09	10393.79	5789.94	732.78
98	NONSCHEDULED	262			41001	32.15				
99	ALL SERVICES	89621	89207	79578	8484792	82203.74	272.09	10393.79	5789.94	732.78
100										
101	INTERNATIONAL--SCHEDULED	2842	2916	2819	530298	14030.90		7223.60	606.83	6.34
102										
103	TOTAL--SCHEDULED	92201	92123	82397	8974089	96202.49	272.09	17617.39	6396.77	739.12
104	NONSCHEDULED	262			41001	32.15				
105	ALL SERVICES	92463	92123	82397	9015390	96234.64	272.09	17617.39	6396.77	739.12
106										
107	IDAHO									
108	DOMESTIC--SCHEDULED	23358	23546	22689	650267	1300.72	99.78	1606.60	7.06	
109	NONSCHEDULED	26			905					
110	ALL SERVICES	23384	23546	22689	651172	1300.72	99.78	1606.60	7.06	
111										
112										

Table 4.8 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, AND BY STATE AND COUNTRY

12 MONTHS ENDED DECEMBER 31,1980

Line No.	State or Country Type of Operation Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	U.S. Mail		Foreign mail
								Priority	Nonpriority	
No.	1	2	3	4	5	6	7	8	9	10
1	IDAHO									
2										
3										
4	ILLINOIS									
5	DOMESTIC--------SCHEDULED	314538	321276	313256	19718693	344673.34	11499.01	75407.69	27089.84	3.16
6	NONSCHEDULED	1451			134765	542.97				
7	ALL SERVICES	315989	321276	313256	19853458	345216.31	11499.01	75407.69	27089.84	3.16
8										
9	INTERNATIONAL---SCHEDULED	1965	1971	1944	263563	20061.13	6.08	1501.72	57.41	
10	NONSCHEDULED	67			9760					
11	ALL SERVICES	2032	1971	1944	273323	20061.13	6.08	1501.72	57.41	
12										
13	TOTAL----------SCHEDULED	316503	323247	315200	19982256	365734.47	11505.09	76909.41	27147.25	3.16
14	NONSCHEDULED	1518			144525	542.97				
15	ALL SERVICES	318021	323247	315200	20126781	366277.44	11505.09	76909.41	27147.25	3.16
16										
17	INDIANA									
18	DOMESTIC--------SCHEDULED	58788	59916	58468	2131069	9158.76	468.18	8867.61	1025.11	
19	NONSCHEDULED	61			3307					
20	ALL SERVICES	58849	59916	58468	2134376	9158.76	468.18	8867.61	1025.11	
21										
22	IOWA									
23	DOMESTIC--------SCHEDULED	43313	45212	43062	1037309	3004.18	146.01	5934.02	30.35	
24	NONSCHEDULED	349			18231					
25	ALL SERVICES	43662	45212	43062	1055540	3004.18	146.01	5934.02	30.35	
26										
27	KANSAS									
28	DOMESTIC--------SCHEDULED	36425	39436	36259	703059	3494.87	37.47	2984.27	9.08	
29	NONSCHEDULED	1								
30	ALL SERVICES	36426	39436	36259	703059	3494.87	37.47	2984.27	9.08	
31										
32	KENTUCKY									
33	DOMESTIC--------SCHEDULED	32790	33182	32691	1317984	5596.92	235.09	6731.89	1.56	
34	NONSCHEDULED	55			2835					
35	ALL SERVICES	32845	33182	32691	1320819	5596.92	235.09	6731.89	1.56	
36										
37	LOUISIANA									
38	DOMESTIC--------SCHEDULED	76806	77721	76483	3978167	11906.24	199.93	7985.44	46.62	
39	NONSCHEDULED	160			8773					
40	ALL SERVICES	76966	77721	76483	3986940	11906.24	199.93	7985.44	46.62	
41										
42	INTERNATIONAL---SCHEDULED	1191	1193	1186	110820	1458.34	52.73	176.90		
43										
44	TOTAL----------SCHEDULED	77997	78914	77669	4088987	13364.58	252.66	8162.34	46.62	
45	NONSCHEDULED	160			8773					
46	ALL SERVICES	78157	78914	77669	4097760	13364.58	252.66	8162.34	46.62	
47										
48	MAINE									
49	DOMESTIC--------SCHEDULED	13739	14120	13700	420539	2065.04	20.64	415.96		
50	NONSCHEDULED	5			83					
51	ALL SERVICES	13744	14120	13700	420622	2065.04	20.64	415.96		
52										
53	INTERNATIONAL---SCHEDULED	32	32	32	6	4.00				
54	NONSCHEDULED	11								
55	ALL SERVICES	43	32	32	6	4.00				
56										
57	TOTAL----------SCHEDULED	13771	14152	13732	420545	2069.04	20.64	415.96		
58	NONSCHEDULED	16			83					
59	ALL SERVICES	13787	14152	13732	420628	2069.04	20.64	415.96		
60										
61	MARYLAND									
62	DOMESTIC--------SCHEDULED	34224	35581	34045	1561299	11149.94	407.35	7265.79	2270.49	
63	NONSCHEDULED	419			16092	.01				
64	ALL SERVICES	34643	35581	34045	1577391	11149.95	407.35	7265.79	2270.49	
65										
66	INTERNATIONAL---SCHEDULED	766	759	759	75103	614.69	2.78	113.98	.39	
67										
68	TOTAL----------SCHEDULED	34990	36340	34804	1636402	11764.63	410.13	7379.77	2270.88	
69	NONSCHEDULED	419			16092	.01				
70	ALL SERVICES	35409	36340	34804	1652494	11764.64	410.13	7379.77	2270.88	
71										
72	MASSACHUSETTS									
73	DOMESTIC--------SCHEDULED	100935	100644	98899	6402298	71892.01	1383.16	21009.32	6724.89	3.57
74	NONSCHEDULED	579			43703	5.46				
75	ALL SERVICES	101514	100644	98899	6446001	71897.47	1383.16	21009.32	6724.89	3.57
76										
77	INTERNATIONAL---SCHEDULED	2720	2717	2663	503859	18950.09	18.69	2358.90	268.55	
78	NONSCHEDULED	33			107	1180.08				
79	ALL SERVICES	2753	2717	2663	503966	20130.17	18.69	2358.90	268.55	
80										
81	TOTAL----------SCHEDULED	103655	103361	101562	6906157	90842.10	1401.85	23368.22	6993.44	3.57
82	NONSCHEDULED	612			43810	1185.54				
83	ALL SERVICES	104267	103361	101562	6949967	92027.64	1401.85	23368.22	6993.44	3.57
84										
85	MICHIGAN									
86	DOMESTIC--------SCHEDULED	148519	150859	147461	6368089	44896.63	797.00	23451.25	4046.77	
87	NONSCHEDULED	574			61413	20.70				
88	ALL SERVICES	149093	150859	147461	6429502	44917.33	797.00	23451.25	4046.77	
89										
90	MINNESOTA									
91	DOMESTIC--------SCHEDULED	100592	102444	100028	4680266	41232.98	548.74	20731.89	3099.54	54.62
92	NONSCHEDULED	504			40242					
93	ALL SERVICES	101096	102444	100028	4720508	41232.98	588.74	20731.89	3099.54	54.62
94										
95	INTERNATIONAL---SCHEDULED	169	172	169	28662	1098.35		26.46	.02	
96	NONSCHEDULED	6			69					
97	ALL SERVICES	175	172	169	28731	1098.35		26.46	.02	
98										
99	TOTAL----------SCHEDULED	100761	102616	100197	4708928	42331.33	588.74	20758.35	3099.56	54.62
100	NONSCHEDULED	510			40311					
101	ALL SERVICES	101271	102616	100197	4749239	42331.33	588.74	20758.35	3099.56	54.62
102										
103	MISSISSIPPI									
104	DOMESTIC--------SCHEDULED	23409	24046	23281	586094	2286.31	11.32	1558.88		
105	NONSCHEDULED	4			180					
106	ALL SERVICES	23413	24046	23281	586274	2286.31	11.32	1558.88		
107										
108	MISSOURI									
109	DOMESTIC--------SCHEDULED	172847	177303	171964	8175869	31336.47	638.84	37094.24	2962.61	
110	NONSCHEDULED	785			23644					
111	ALL SERVICES	173632	177090	171964	8199513	31336.47	638.84	37094.24	2962.61	
112										

Table 4.8 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, AND BY STATE AND COUNTRY

12 MONTHS ENDED DECEMBER 31,1980

Line No.	State or Country Type of Operation Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	U.S. Mail		Foreign mail
								Priority	Nonpriority	
	1	2	3	4	5	6	7	8	9	10
1	MISSOURI									
2										
3										
4	MONTANA									
5	DOMESTIC--------SCHEDULED	35387	36978	35228	769809	1740.59	27.58	2212.91	12.76	
6	NONSCHEDULED	2			128					
7	ALL SERVICES	35389	36978	35228	769937	1740.59	27.58	2212.91	12.76	
8										
9	NEBRASKA									
10	DOMESTIC--------SCHEDULED	35127	36139	34807	1125628	3170.84	161.83	7324.27	125.74	
11	NONSCHEDULED	75			4038					
12	ALL SERVICES	35202	36139	34807	1129666	3170.84	161.83	7324.27	125.74	
13										
14	NEVADA									
15	DOMESTIC--------SCHEDULED	85252	85760	83281	5466393	4803.41	172.49	4531.41	62.13	
16	NONSCHEDULED	2088			345924					
17	ALL SERVICES	87340	85760	83281	5812317	4803.41	172.49	4531.41	62.13	
18										
19	NEW HAMPSHIRE									
20	DOMESTIC--------SCHEDULED	5863	6136	5830	53317	104.01	.68	89.19		
21	NONSCHEDULED	3			20					
22	ALL SERVICES	5866	6136	5830	53337	104.01	.68	89.19		
23										
24	NEW JERSEY									
25	DOMESTIC--------SCHEDULED	54013	55035	53803	3956693	28075.66	1581.57	14871.99	7655.55	.55
26	NONSCHEDULED	710			23234	.21				
27	ALL SERVICES	54723	55035	53803	3979927	28075.87	1581.57	14871.99	7655.55	.55
28										
29	INTERNATIONAL---SCHEDULED	2155	2127	2121	227405	1278.32	16.55	398.82	6.09	
30	NONSCHEDULED	1								
31	ALL SERVICES	2156	2127	2121	227405	1278.32	16.55	398.82	6.09	
32										
33	TOTAL----------SCHEDULED	56168	57162	55924	4184098	29353.98	1598.12	15270.81	7661.64	.55
34	NONSCHEDULED	711			23234	.21				
35	ALL SERVICES	56879	57162	55924	4207332	29354.19	1598.12	15270.81	7661.64	.55
36										
37	NEW MEXICO									
38	DOMESTIC--------SCHEDULED	37782	39521	37653	1206412	2539.91	23.93	2893.36	269.48	
39	NONSCHEDULED	7			260					
40	ALL SERVICES	37789	39521	37653	1206672	2539.91	23.93	2893.36	269.48	
41										
42	NEW YORK									
43	DOMESTIC--------SCHEDULED	286425	288164	281122	18634906	274422.14	4755.45	92788.42	25595.15	122.70
44	NONSCHEDULED	1261			75811	2132.28				
45	ALL SERVICES	287686	288164	281122	18710717	276554.42	4755.45	92788.42	25595.15	122 70
46										
47	INTERNATIONAL---SCHEDULED	18685	19066	18282	2965138	139777.90	113.77	25901.47	8112.36	16.92
48	NONSCHEDULED	483			86817	8901.69				
49	ALL SERVICES	19168	19066	18282	3051955	148679.59	113.77	25901.47	8112.36	16.92
50										
51	TOTAL----------SCHEDULED	305110	307230	299404	21580044	414200.04	4869.22	118689.89	33807.51	139.62
52	NONSCHEDULED	1944			162628	11033.97				
53	ALL SERVICES	307054	307230	299404	21742672	425234.01	4869.22	118689.89	33807.51	139.62
54										
55	NORTH CAROLINA									
56	DOMESTIC--------SCHEDULED	96325	98615	95746	3547141	19340.63	1167.75	14623.49	192.84	
57	NONSCHEDULED	520			11209					
58	ALL SERVICES	96845	98615	95746	3558350	19340.63	1167.75	14623.49	192.84	
59										
60	NORTH DAKOTA									
61	DOMESTIC--------SCHEDULED	25264	25964	25165	527529	1172.98	9.79	1388.66	5.59	
62	NONSCHEDULED	34			2303					
63	ALL SERVICES	25298	25964	25165	529832	1172.98	9.79	1388.66	5.59	
64										
65	OHIO									
66	DOMESTIC--------SCHEDULED	145000	146156	144521	6942234	47567.05	2363.46	75556.37	2785.97	
67	NONSCHEDULED	412			15362	98.64				
68	ALL SERVICES	145412	146156	144521	6957596	47665.69	2363.46	75556.37	2785.97	
69										
70	INTERNATIONAL---SCHEDULED	85	90	85	7793	8.27	.73	10.35	.04	
71										
72	TOTAL----------SCHEDULED	145085	146246	144606	6950027	47575.32	2364.19	75566.72	2786.01	
73	NONSCHEDULED	412			15362	98.64				
74	ALL SERVICES	145497	146246	144606	6965389	47673.96	2364.19	75566.72	2786.01	
75										
76	OKLAHOMA									
77	DOMESTIC--------SCHEDULED	44600	45561	44450	2151407	7656.96	133.36	9591.05	1008.36	
78	NONSCHEDULED	113			6593					
79	ALL SERVICES	44713	45561	44450	2158000	7656.96	133.36	9591.05	1008.36	
80										
81	OREGON									
82	DOMESTIC--------SCHEDULED	46282	47514	45344	2163593	23230.97	381.44	6871.38	1464.63	
83	NONSCHEDULED	77			4556					
84	ALL SERVICES	46359	47514	45344	2168149	23230.97	381.44	6871.38	1464.63	
85										
86	PENNSYLVANIA									
87	DOMESTIC--------SCHEDULED	175163	180294	174603	10133881	141018.41	1754.54	36414.05	12819.56	
88	NONSCHEDULED	835			40049					
89	ALL SERVICES	175998	180294	174603	10173930	141018.41	1754.54	36414.05	12819.56	
90										
91	INTERNATIONAL---SCHEDULED	894	905	889	106139	3194.37	4.92	349.53	353.41	
92	NONSCHEDULED	3			71					
93	ALL SERVICES	897	905	889	106210	3194.37	4.92	349.53	353.41	
94										
95	TOTAL----------SCHEDULED	176057	181199	175492	10240020	144212.78	1759.46	36763.58	13173.17	
96	NONSCHEDULED	838			40120					
97	ALL SERVICES	176895	181199	175492	10280140	144212.78	1759.46	36763.58	13173.17	
98										
99	RHODE ISLAND									
100	DOMESTIC--------SCHEDULED	9529	9603	9487	458987	1184.39	35.29	1601.60	6.87	
101	NONSCHEDULED	10			329					
102	ALL SERVICES	9539	9603	9487	459316	1184.39	35.29	1601.60	6.87	
103										
104	SOUTH CAROLINA									
105	DOMESTIC--------SCHEDULED	27015	27193	26786	1287857	3059.57	471.63	3772.48	12.39	
106	NONSCHEDULED	17			439					
107	ALL SERVICES	27032	27193	26786	1288296	3059.57	471.63	3772.48	12.39	
108										
109										
110										
111										
112										

Table 4.8 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, AND BY STATE AND COUNTRY

12 MONTHS ENDED DECEMBER 31,1980

Line No.	State or Country Type of Operation Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	US Mail		Foreign mail
								Priority	Nonpriority	
	1	2	3	4	5	6	7	8	9	10
1	SOUTH CAROLINA									
2										
3	INTERNATIONAL---SCHEDULED	2			248	.05				
4										
5	TOTAL----------SCHEDULED	27017	27193	26786	1288105	3059.62	471.63	3772.48	12.39	
6	NONSCHEDULED	17			439					
7	ALL SERVICES	27034	27193	26786	1288544	3059.62	471.63	3772.48	12.39	
8										
9	SOUTH DAKOTA									
10	DOMESTIC----SCHEDULED	29831	30524	29624	470292	1421.43	28.18	1351.66	4.48	
11	NONSCHEDULED	21			631					
12	ALL SERVICES	29852	30524	29624	470923	1421.43	28.18	1351.66	4.48	
13										
14	TENNESSEE									
15	DOMESTIC----SCHEDULED	108069	109059	107628	4168557	20598.09	808.94	18044.11	536.88	
16	NONSCHEDULED	166			5915					
17	ALL SERVICES	108235	109059	107628	4174472	20598.09	808.94	18044.11	536.88	
18										
19	TEXAS									
20	DOMESTIC--------SCHEDULED	397291	402332	395959	24627405	139869.43	2530.32	67881.87	4309.45	58.56
21	NONSCHEDULED	1075			50988	22.47				
22	ALL SERVICES	398366	402332	395959	24678393	139891.90	2530.32	67881.87	4309.45	58.56
23										
24	INTERNATIONAL---SCHEDULED	5654	5615	5581	619660	13356.22		1022.42	.33	13.03
25	NONSCHEDULED	74			5161	102.43				
26	ALL SERVICES	5728	5615	5581	624821	13458.65		1022.42	.33	13.03
27										
28	TOTAL----------SCHEDULED	402945	407947	401540	25247065	153225.65	2530.32	68904.29	4309.78	71.59
29	NONSCHEDULED	1149			56149	124.90				
30	ALL SERVICES	404094	407947	401540	25303214	153350.55	2530.32	68904.29	4309.78	71.59
31										
32	UTAH									
33	DOMESTIC--------SCHEDULED	49889	50894	49386	2016025	9306.80	245.54	7197.63	375.88	
34	NONSCHEDULED	67			4910					
35	ALL SERVICES	49959	50894	49386	2020935	9306.80	245.54	7197.63	375.88	
36										
37	VERMONT									
38	DOMESTIC--------SCHEDULED	8552	8773	8530	207144	761.19	1.56	113.24		
39	NONSCHEDULED	6			76					
40	ALL SERVICES	8558	8773	8530	207220	761.19	1.56	113.24		
41										
42	VIRGINIA									
43	DOMESTIC--------SCHEDULED	61660	64482	61404	2095802	4102.76	112.60	1602.41	13.71	
44	NONSCHEDULED	142			5920					
45	ALL SERVICES	61802	64482	61404	2101722	4102.76	112.60	1602.41	13.71	
46										
47	WASHINGTON									
48	DOMESTIC--------SCHEDULED	103455	106719	101354	5108086	109919.40	1342.47	22871.66	4790.00	70.86
49	NONSCHEDULED	290			15345	56.05				
50	ALL SERVICES	103745	106719	101354	5123431	109975.45	1342.47	22871.66	4790.00	70.86
51										
52	INTERNATIONAL---SCHEDULED	953	980	933	172553	8161.21		2188.02	628.05	99.76
53	NONSCHEDULED	47				2277.24				
54	ALL SERVICES	1000	980	933	172553	10440.45		2188.02	628.05	99.76
55										
56	TOTAL----------SCHEDULED	104408	107699	102287	5280639	118082.61	1342.47	25059.68	5418.05	170.62
57	NONSCHEDULED	337			15345	2333.29				
58	ALL SERVICES	104745	107699	102287	5295984	120415.90	1342.47	25059.68	5418.05	170.62
59										
60	WEST VIRGINIA									
61	DOMESTIC--------SCHEDULED	18612	19205	18502	422296	28651.95	686.59	1044.94		
62	NONSCHEDULED	71			1354					
63	ALL SERVICES	18683	19205	18502	423650	28651.95	686.59	1044.94		
64										
65	WISCONSIN									
66	DOMESTIC--------SCHEDULED	84016	85691	83217	2603069	10249.64	201.34	9682.33	101.95	
67	NONSCHEDULED	370			33149					
68	ALL SERVICES	84386	85691	83217	2636218	10249.64	201.34	9682.33	101.95	
69										
70	WYOMING									
71	DOMESTIC--------SCHEDULED	16152	16803	16063	297494	924.97	15.11	468.04	.03	
72	NONSCHEDULED	4			93					
73	ALL SERVICES	16156	16803	16063	297587	924.97	15.11	468.04	.03	
74										
75	TOTAL FOR 50 U. S. STATES									
76	DOMESTIC--------SCHEDULED	5039769	5111739	4951450	268253703	2550868.27	71020.38	1196797.44	188405.00	1124.63
77	NONSCHEDULED	22330			1311869	19865.02	36.91	6.13		
78	ALL SERVICES	5062099	5111739	4951450	269565572	2570733.29	71065.29	1196803.57	188405.00	1124.63
79										
80	INTERNATIONAL---SCHEDULED	67278	67743	65963	9178761	845144.65	682.56	120794.57	12636.50	368.23
81	NONSCHEDULED	1827			193658	16402.57				
82	ALL SERVICES	69105	67743	65963	9372419	861547.22	682.56	120794.57	12636.50	368.23
83										
84	TOTAL----------SCHEDULED	5107047	5179482	5017413	277432464	3396012.92	71710.92	1317592.01	201041.50	1492.86
85	NONSCHEDULED	24157			1525527	36267.59	36.91	6.13		
86	ALL SERVICES	5131204	5179482	5017413	278957991	3432280.51	71747.83	1317598.14	201041.50	1492.86
87										
88	OTHER U. S. AREAS									
89										
90	AMERICAN SAMOA									
91	INTERNATIONAL---SCHEDULED	446	448	443	26212	461.33		69.14		
92										
93	CAROLINE ISLANDS									
94	INTERNATIONAL---SCHEDULED	1083	1103	1059	30506	326.28		101.86		
95										
96	GUAM ISLAND									
97	INTERNATIONAL---SCHEDULED	2039	2070	2007	152630	2792.18		1366.84	489.21	.06
98										
99	JOHNSTON ISLAND									
100	INTERNATIONAL---SCHEDULED	171	174	170	223	1.67		2.70		
101										
102	MARIANA ISLANDS									
103	INTERNATIONAL---SCHEDULED	1143	1172	1122	66138	248.93		56.58		
104										
105	MARSHALL ISLANDS									
106	INTERNATIONAL---SCHEDULED	494	490	489	8552	97.65		73.93		
107										
108	PUERTO RICO									
109	DOMESTIC--------SCHEDULED	369	371	341		9357.77	12.13	36.96		
110	NONSCHEDULED	1				14.80				
111	ALL SERVICES	370	371	341		9372.57	12.13	36.96		
112										

Table 4.8 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, AND BY STATE AND COUNTRY

12 MONTHS ENDED DECEMBER 31,1980

Line No.	State or Country Type of Operation Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	U.S. Mail		Foreign mail
								Priority	Nonpriority	
	1	2	3	4	5	6	7	8	9	10
1	PUERTO RICO									
2										
3	INTERNATIONAL---SCHEDULED	13296	13296	13045	1833438	43181.08	140.06	1513.48	2009.16	
4	NONSCHEDULED	76			5642	891.92				
5	ALL SERVICES	13370	13296	13045	1839280	44073.00	140.06	1513.48	2009.16	
6										
7	TOTAL----------SCHEDULED	13663	13667	13386	1833638	52538.85	152.19	1550.44	2009.16	
8	NONSCHEDULED	77			5642	906.72				
9	ALL SERVICES	13740	13667	13386	1839280	53445.57	152.19	1550.44	2009.16	
10										
11	VIRGIN ISLANDS, U.S.									
12	DOMESTIC--------SCHEDULED	10	14	10	454					
13										
14	INTERNATIONAL---SCHEDULED	6518	5944	5889	326866	433.25		276.83	2.05	
15										
16	TOTAL----------SCHEDULED	6528	5958	5899	327320	433.25		276.83	2.05	
17										
18	TOTAL FOR OTHER U. S. AREAS									
19	DOMESTIC--------SCHEDULED	379	385	351	454	9357.77	12.13	36.96		
20	NONSCHEDULED	1				14.80				
21	ALL SERVICES	380	385	351	454	9372.57	12.13	36.96		
22										
23	INTERNATIONAL---SCHEDULED	25188	24697	24224	2444765	47742.37	140.06	3455.36	2500.42	.06
24	NONSCHEDULED	76			5642	891.92				
25	ALL SERVICES	25264	24697	24224	2450407	48634.29	140.06	3455.36	2500.42	.06
26										
27	TOTAL----------SCHEDULED	25567	25082	24575	2445219	57100.14	152.19	3492.32	2500.42	.06
28	NONSCHEDULED	77			5642	906.72				
29	ALL SERVICES	25644	25082	24575	2450861	58006.86	152.19	3492.32	2500.42	.06
30										
31	FOREIGN COUNTRIES									
32										
33	ARGENTINA									
34	INTERNATIONAL---SCHEDULED	1079	1102	1027	116204	3141.09		27.77	.57	9.20
35										
36	AUSTRALIA									
37	INTERNATIONAL---SCHEDULED	973	1007	966	133831	6293.09		63.81	14.17	104.45
38	NONSCHEDULED	1				84.82				
39	ALL SERVICES	974	1007	966	133831	6377.91		63.81	14.17	104.45
40										
41	AUSTRIA									
42	INTERNATIONAL---SCHEDULED	246	249	246	12556	14.93		5.65		
43										
44	BAHAMAS									
45	DOMESTIC--------SCHEDULED	850	839	824	39955			1.00		
46	NONSCHEDULED	418			38334					
47	ALL SERVICES	1268	839	824	78289			1.00		
48										
49	INTERNATIONAL---SCHEDULED	5052	4992	4941	547466	763.22		3.90		4.33
50	NONSCHEDULED	395			40959					
51	ALL SERVICES	5447	4992	4941	588425	763.22		3.90		4.33
52										
53	TOTAL----------SCHEDULED	5902	5831	5765	587421	763.22		4.90		4.33
54	NONSCHEDULED	813			79293					
55	ALL SERVICES	6715	5831	5765	666714	763.22		4.90		4.33
56										
57	BAHRAIN									
58	INTERNATIONAL---SCHEDULED	122	119	118	5496	53.40		.68	17.13	.16
59	NONSCHEDULED	1								
60	ALL SERVICES	123	119	118	5496	53.40		.68	17.13	.16
61										
62	BARBADOS									
63	INTERNATIONAL---SCHEDULED	1308	1302	1272	83500	248.86		34.25		
64	NONSCHEDULED	4			584					
65	ALL SERVICES	1312	1302	1272	84084	248.86		34.25		
66										
67	BELGIUM									
68	DOMESTIC--------SCHEDULED	2	2	2	539					
69										
70	INTERNATIONAL---SCHEDULED	702	747	656	27422	16676.78		117.73	501.39	2.36
71	NONSCHEDULED	9			365	193.11				
72	ALL SERVICES	711	747	656	27787	16869.89		117.73	501.39	2.36
73										
74	TOTAL----------SCHEDULED	704	749	658	27961	16676.78		117.73	501.39	2.36
75	NONSCHEDULED	9			365	193.11				
76	ALL SERVICES	713	749	658	28326	16869.89		117.73	501.39	2.36
77										
78	BERMUDA									
79	INTERNATIONAL---SCHEDULED	3395	3353	3337	457902	373.15		145.24	22.65	51.71
80	NONSCHEDULED	9			956					
81	ALL SERVICES	3404	3353	3337	458858	373.15		145.24	22.65	51.71
82										
83	BOLIVIA									
84	INTERNATIONAL---SCHEDULED	461	482	461	18043	97.61		11.85	17.89	15.43
85										
86	BRAZIL									
87	INTERNATIONAL---SCHEDULED	2870	2931	2757	245399	12442.93		323.88	.31	110.97
88	NONSCHEDULED	9				40.04				
89	ALL SERVICES	2879	2931	2757	245399	12482.97		323.88	.31	110.97
90										
91	BRITISH WEST INDIES									
92	DOMESTIC--------SCHEDULED	472	475	466	29995	23.63		33.20		
93										
94	INTERNATIONAL---SCHEDULED	1169	1169	1160	50724	256.16		15.66		
95										
96	TOTAL----------SCHEDULED	1641	1644	1626	80719	279.79		48.86		
97										
98	CANADA									
99	DOMESTIC--------SCHEDULED	38542	38850	38092	2705613	9566.85	176.70	879.34	150.94	
100	NONSCHEDULED	217			17934	4.38				
101	ALL SERVICES	38759	38850	38092	2723547	9571.23	176.70	879.34	150.94	
102										
103	CHILE									
104	INTERNATIONAL---SCHEDULED	825	843	822	92747	762.00		25.23	.49	93.97
105	NONSCHEDULED	1			138					
106	ALL SERVICES	826	843	822	92885	762.00		25.23	.49	93.97
107										
108	CHINA									
109	INTERNATIONAL---SCHEDULED	1	1	1						
110										
111										
112										

Table 4.8 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, AND BY STATE AND COUNTRY

12 MONTHS ENDED DECEMBER 31,1980

Line No.	State or Country Type of Operation Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	U.S. Mail		Foreign mail
								Priority	Nonpriority	
No.	1	3	3	4	5	6	7	8	9	10
1	COLOMBIA									
2										
3	INTERNATIONAL---SCHEDULED	2162	2209	2097	113909	5505.06		11.78	36.97	4.01
4	NONSCHEDULED	11			571	175.43				
5	ALL SERVICES	2173	2209	2097	114480	5680.49		11.78	36.97	4.01
6										
7	COSTA RICA									
8	DOMESTIC--------SCHEDULED	1	1	1	24040					
9										
10	INTERNATIONAL---SCHEDULED	586	610	583	46822	392.71		9.51	.08	11.26
11										
12	TOTAL----------SCHEDULED	587	611	584	70862	392.71		9.51	.06	11.26
13										
14	CUBA									
15	DOMESTIC--------SCHEDULED	1			100	.09		.01		
16										
17	INTERNATIONAL---SCHEDULED	2			96					
18	NONSCHEDULED	46			2854					
19	ALL SERVICES	48			2950					
20										
21	TOTAL----------SCHEDULED	3			196	.09		.01		
22	NONSCHEDULED	46			2854					
23	ALL SERVICES	49			3050	.09		.01		
24										
25	DENMARK									
26	INTERNATIONAL---SCHEDULED	436	477	435	29314	540.16		23.94	5.95	
27										
28	DOMINICAN REPUBLIC									
29	DOMESTIC--------SCHEDULED	12	12	11	369					
30										
31	INTERNATIONAL---SCHEDULED	2108	2085	2005	251314	7746.77		5.60		.93
32	NONSCHEDULED	30			4400					
33	ALL SERVICES	2138	2085	2005	255714	7746.77		5.60		.93
34										
35	TOTAL----------SCHEDULED	2120	2097	2016	251683	7746.77		5.60		.93
36	NONSCHEDULED	30			4400					
37	ALL SERVICES	2150	2097	2016	256083	7746.77		5.60		.93
38										
39	ECUADOR									
40	INTERNATIONAL---SCHEDULED	1707	1719	1703	88594	530.47		4.73	.06	33.37
41	NONSCHEDULED	2			89					
42	ALL SERVICES	1709	1719	1703	88683	530.47		4.73	.06	33.37
43										
44	ARAB REPUBLIC OF EGYPT									
45	INTERNATIONAL---SCHEDULED	601	603	603	72225	710.29		109.99	1.16	1.99
46										
47	EL SALVADOR									
48	INTERNATIONAL---SCHEDULED	233	234	228	10480	64.15			3.88	21.79
49										
50	FIJI									
51	INTERNATIONAL---SCHEDULED	469	443	439	29919	885.71		21.18	1.15	18.79
52										
53	FRANCE									
54	INTERNATIONAL---SCHEDULED	2582	2656	2542	309159	10473.83		101.67	92.29	3.44
55	NONSCHEDULED	152			7633	.50				
56	ALL SERVICES	2734	2656	2542	316792	10474.33		101.67	92.29	3.44
57										
58	FRENCH ANTILLES									
59	INTERNATIONAL---SCHEDULED	1119	1117	1092	42687	31.53		.78		
60										
61	GERMANY									
62	INTERNATIONAL---SCHEDULED	31216	30729	29901	2715874	42881.93		4455.89	7745.20	9193.63
63	NONSCHEDULED	465			41816	4300.96				
64	ALL SERVICES	31681	30729	29901	2757690	47182.89		4455.89	7745.20	9193.63
65										
66	GHANA									
67	INTERNATIONAL---SCHEDULED	51	52	51	3896	436.15				4.16
68										
69	GREECE									
70	INTERNATIONAL---SCHEDULED	1575	1588	1568	162918	465.65		238.79	143.57	11.59
71										
72	GUATEMALA									
73	INTERNATIONAL---SCHEDULED	1854	1879	1849	146212	9885.06		.58	.21	311.12
74										
75	GUYANA									
76	INTERNATIONAL---SCHEDULED	238	239	237	27660	119.09		1.92	2.94	2.76
77	NONSCHEDULED	4			637					
78	ALL SERVICES	242	239	237	28297	119.09		1.92	2.94	2.76
79										
80	HAITI									
81	DOMESTIC--------SCHEDULED						.87			
82										
83	INTERNATIONAL---SCHEDULED	1647	1716	1639	124567	3727.96		35.39		3.17
84	NONSCHEDULED	5			186					
85	ALL SERVICES	1652	1716	1639	124753	3727.96		35.39		3.17
86										
87	TOTAL----------SCHEDULED	1647	1716	1639	124567	3727.96	.87	35.39		3.17
88	NONSCHEDULED	5			186					
89	ALL SERVICES	1652	1716	1639	124753	3727.96	.87	35.39		3.17
90										
91	HONDURAS									
92	DOMESTIC--------SCHEDULED	132	131	131	3974		17.40	211.20		
93										
94	INTERNATIONAL---SCHEDULED	412	430	408	16009					
95										
96	TOTAL----------SCHEDULED	544	561	539	19983		17.40	211.20		
97										
98	HONG KONG									
99	INTERNATIONAL---SCHEDULED	2409	2449	2309	294726	32775.53		32.60	459.18	1030.33
100										
101	INDIA									
102	INTERNATIONAL---SCHEDULED	773	780	767	132274	9066.53		90.15	108.35	289.97
103										
104	IRELAND									
105	INTERNATIONAL---SCHEDULED	458	447	430	48396	39.61		.29	4.19	
106	NONSCHEDULED	7				36.84				
107	ALL SERVICES	465	447	430	48396	76.45		.29	4.19	
108										
109										
110										
111										
112										

Table 4.8 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, AND BY STATE AND COUNTRY

12 MONTHS ENDED DECEMBER 31,1980

Line No.	State or Country, Type of Operation, Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	U.S. Mail		Foreign mail
								Priority	Nonpriority	
	1	2	3	4	5	6	7	8	9	10
1	ISRAEL									
2										
3	INTERNATIONAL---SCHEDULED	846	849	844	89502	621.83		51.36	27.11	4.98
4										
5	ITALY									
6	INTERNATIONAL---SCHEDULED	2920	2953	2875	352042	10609.00		775.53	359.22	100.96
7	NONSCHEDULED	38			918					
8	ALL SERVICES	2958	2953	2875	352960	10609.00		775.53	359.22	100.96
9										
10	IVORY COAST									
11	INTERNATIONAL---SCHEDULED	102	105	101	4871	75.82		.03		2.92
12										
13	JAMAICA									
14	DOMESTIC--------SCHEDULED	30	29	29	1013					
15	NONSCHEDULED	13			1081					
16	ALL SERVICES	43	29	29	2094					
17										
18	INTERNATIONAL---SCHEDULED	1749	1769	1637	102681	665.18		1.68		
19	NONSCHEDULED	28			2149					
20	ALL SERVICES	1777	1769	1637	104830	665.18		1.68		
21										
22	TOTAL----------SCHEDULED	1779	1798	1666	103694	665.18		1.68		
23	NONSCHEDULED	41			3230					
24	ALL SERVICES	1820	1798	1666	106924	665.18		1.68		
25										
26	JAPAN									
27	INTERNATIONAL---SCHEDULED	8820	9044	8520	1042965	91765.95	2.78	5090.37	8236.72	880.69
28	NONSCHEDULED	3				218.43				
29	ALL SERVICES	8823	9044	8520	1042965	91984.38	2.78	5090.37	8236.72	880.69
30										
31	KENYA									
32	INTERNATIONAL---SCHEDULED	101	105	101	9613	376.84		22.28		17.97
33										
34	LIBERIA									
35	INTERNATIONAL---SCHEDULED	310	315	307	14650	709.38		26.22		41.13
36										
37	MALAYSIA									
38	INTERNATIONAL---SCHEDULED	33	38	4		178.84			1.30	
39										
40	MEXICO									
41	DOMESTIC--------SCHEDULED	5694	5561	5493	317656	52.23		1.62		
42	NONSCHEDULED	223			18621					
43	ALL SERVICES	5917	5561	5493	336277	52.23		1.62		
44										
45	INTERNATIONAL---SCHEDULED	14595	14516	14443	1147390	7438.08		.15		.17
46	NONSCHEDULED	39			5255					
47	ALL SERVICES	14634	14516	14443	1152645	7438.03		.15		.17
48										
49	TOTAL----------SCHEDULED	20289	20077	19936	1465046	7490.31		1.77		.17
50	NONSCHEDULED	262			23876					
51	ALL SERVICES	20551	20077	19936	1488922	7490.31		1.77		.17
52										
53	NETHERLANDS									
54	DOMESTIC--------SCHEDULED	5	5	5	1178					
55										
56	INTERNATIONAL---SCHEDULED	518	620	490	45611	4824.73		21.76	29.97	
57										
58	TOTAL----------SCHEDULED	523	625	495	46789	4824.73		21.76	29.97	
59										
60	NETHERLANDS ANTILLES									
61	INTERNATIONAL---SCHEDULED	2406	2362	2350	163108	451.40		36.37		6.82
62	NONSCHEDULED	2			337					
63	ALL SERVICES	2408	2362	2350	163445	451.40		36.37		6.82
64										
65	NEW ZEALAND									
66	INTERNATIONAL---SCHEDULED	859	854	842	77581	8371.67		32.62	29.60	61.98
67	NONSCHEDULED	1				101.08				
68	ALL SERVICES	860	854	842	77581	8472.75		32.62	29.60	61.98
69										
70	NIGERIA									
71	INTERNATIONAL---SCHEDULED	204	210	204	18752	352.85		23.92		
72										
73	NORWAY									
74	INTERNATIONAL---SCHEDULED	87	91	87	7120	177.12		2.97	1.02	
75										
76	PAKISTAN									
77	INTERNATIONAL---SCHEDULED	210	210	210	9503	96.31			.05	3.79
78										
79	PANAMA									
80	INTERNATIONAL---SCHEDULED	2359	2317	2302	156127	1386.62		208.80	244.28	86.41
81	NONSCHEDULED	19			1832					
82	ALL SERVICES	2378	2317	2302	157959	1386.62		208.80	244.28	86.41
83										
84	PARAGUAY									
85	INTERNATIONAL---SCHEDULED	157	158	155	6962	52.55		10.60	.79	6.93
86										
87	PERU									
88	INTERNATIONAL---SCHEDULED	1303	1308	1293	91470	1101.87		114.48	7.31	46.01
89										
90	PHILIPPINES									
91	INTERNATIONAL---SCHEDULED	434	467	432	126791	3230.41		701.13	1897.15	13.69
92										
93	POLAND									
94	INTERNATIONAL---SCHEDULED	276	280	273	15497	36.23		100.77		
95										
96	PORTUGAL									
97	INTERNATIONAL---SCHEDULED	595	574	544	36490	171.09		23.57	5.30	2.23
98	NONSCHEDULED	1		*	91					
99	ALL SERVICES	596	574	544	36581	171.09		23.57	5.30	2.23
100										
101	ROMANIA									
102	INTERNATIONAL---SCHEDULED	80	83	75	1430	37.65				
103										
104	SAUDI ARABIA									
105	INTERNATIONAL---SCHEDULED	355	354	350	24241	63.04		44.83	.30	6.18
106										
107	SENEGAL									
108	INTERNATIONAL---SCHEDULED	210	212	207	6828	46.81		.07	.05	10.92
109										
110										
111										
112										

Table 4.8 - continued

SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL BY TYPE OF OPERATION, BY TYPE OF SERVICE, AND BY STATE AND COUNTRY

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	State or Country Type of Operation Type of Service	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	US Mail		Foreign mail
								Priority	Nonpriority	
No.	1	2	3	4	5	6	7	8	9	10
1	SINGAPORE									
2										
3	INTERNATIONAL---SCHEDULED	509	535	446	44156	2354.99		44.41	5.42	24.78
4										
5	SOUTH KOREA									
6	INTERNATIONAL---SCHEDULED	1175	1278	1160	118881	13646.46		644.97	1833.44	9.61
7										
8	SPAIN									
9	INTERNATIONAL---SCHEDULED	1302	1324	1290	113498	574.09		222.23	346.34	
10	NONSCHEDULED	1			123					
11	ALL SERVICES	1303	1324	1290	113621	574.09		222.23	346.34	
12										
13	SWEDEN									
14	INTERNATIONAL---SCHEDULED	205	229	205	20514	630.78		8.05	1.68	
15										
16	SWITZERLAND									
17	INTERNATIONAL---SCHEDULED	537	528	512	25850	7757.96		17.60	30.02	17.41
18	NONSCHEDULED	69			7724					
19	ALL SERVICES	606	528	512	33574	7757.96		17.60	30.02	17.41
20										
21	TAIWAN									
22	INTERNATIONAL---SCHEDULED	1233	1257	1105	107944	34342.58		96.82	91.95	981.32
23										
24	THAILAND									
25	INTERNATIONAL---SCHEDULED	402	414	401	37897	732.77		51.57	124.04	.02
26										
27	TRINIDAD & TOBAGO									
28	INTERNATIONAL---SCHEDULED	1107	1118	1097	46128	497.05		1.86		5.73
29	NONSCHEDULED	17			3005					
30	ALL SERVICES	1124	1118	1097	49133	497.05		1.86		5.73
31										
32	TURKEY									
33	INTERNATIONAL---SCHEDULED	561	546	526	26268	330.90		78.61	20.62	4.11
34	NONSCHEDULED	59			6604					
35	ALL SERVICES	620	546	526	32872	330.90		78.61	20.62	4.11
36										
37	EMIRATES									
38	INTERNATIONAL---SCHEDULED	70	76	69		24.69		.07		
39										
40	UNITED KINGDOM									
41	INTERNATIONAL---SCHEDULED	[illegible]	8206	7896	1297708	38725.23		3523.34	950.88	735.91
42	NONSCHEDULED	77			2237	298.60				
43	ALL SERVICES	8105	8206	7896	1299945	39023.83		3523.34	950.88	735.91
44										
45	URUGUAY									
46	INTERNATIONAL---SCHEDULED	88	91	83	12964	287.68			10.31	18.76
47										
48	VENEZUELA									
49	INTERNATIONAL---SCHEDULED	2279	2327	2174	295914	6105.55		20.17	.50	19.58
50	NONSCHEDULED	15			674	4.84				
51	ALL SERVICES	2294	2327	2174	296588	6110.39		20.17	.50	19.58
52										
53	YUGOSLAVIA									
54	INTERNATIONAL---SCHEDULED	91	100	90	2159	21.61				
55	NONSCHEDULED	1			110					
56	ALL SERVICES	92	100	90	2269	21.61				
57										
58	TOTAL FOR FOREIGN COUNTRIES									
59	DOMESTIC---SCHEDULED	45741	45905	45054	3124432	9642.80	194.97	1126.37	150.94	
60	NONSCHEDULED	871			75970	4.38				
61	ALL SERVICES	46612	45905	45054	3200402	9647.18	194.97	1126.37	150.94	
62										
63	INTERNATIONAL---SCHEDULED	127917	128577	124347	12119409	402275.02	2.78	17939.65	23371.15	14400.90
64	NONSCHEDULED	1521			132247	5454.65				
65	ALL SERVICES	129438	128577	124347	12251656	407729.67	2.78	17939.65	23371.15	14400.90
66										
67	TOTAL---SCHEDULED	173658	174482	169401	15243841	411917.82	197.75	19066.02	23522.09	14400.90
68	NONSCHEDULED	2392			208217	5459.03				
69	ALL SERVICES	176050	174482	169401	15452058	417376.85	197.75	19066.02	23522.09	14400.90
70										
71	OVER-ALL TOTAL FOR ALL STATES,									
72	AREAS, AND COUNTRIES									
73	DOMESTIC---SCHEDULED	5085889	5158029	4996855	271378389	2569868.84	71235.48	1197960.77	188555.94	1124.63
74	NONSCHEDULED	23202			1407839	19884.20	36.91	4.13		
75	ALL SERVICES	5109091	5158029	4996855	272786428	2589753.04	71272.39	1197964.90	188555.94	1124.63
76										
77	INTERNATIONAL---SCHEDULED	220383	221017	214534	23742935	1295162.04	825.38	142189.58	38508.07	14769.19
78	NONSCHEDULED	3424			331547	22749.14				
79	ALL SERVICES	223807	221017	214534	24074482	1317911.18	825.38	142189.58	38508.07	14769.19
80										
81	TOTAL---SCHEDULED	5306272	5379046	5211389	295121324	3865030.88	72060.86	1340150.35	227064.01	15893.82
82	NONSCHEDULED	26626			1739386	42633.34	36.91	4.13		
83	ALL SERVICES	5332898	5379046	5211389	296860910	3907664.22	72097.77	1340156.48	227064.01	15893.82
84										
85										
86										
87										
88										
89										
90										
91										
92										
93										
94										
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Table 4.9

AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT LARGE AIR TRAFFIC HUBS

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Community (Airport Name) Percent of Enplanements	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	U.S. Mail		Foreign mail
								Priority	Nonpriority	
	1	2	3	4	5	6	7	8	9	10
1	ATLANTA, GEORGIA									
2	(WILLIAM B HARTSFIELD INT'L)									
3	7.10	266831	260626	259513	19994113	150421.98	9105.80	95182.36	124.80	.47
4										
5	BOSTON, MASSACHUSETTS									
6	(LOGAN INTERNATIONAL)									
7	2.43	91810	90861	89980	6844951	91947.70	1401.85	23277.53	6993.44	3.57
8										
9	CHICAGO, ILLINOIS									
10	(MIDWAY)									
11	0.06	4043	4096	4031	189579	16.40	.70	.34		
12	(O'HARE INTERNATIONAL)									
13	6.83	284331	287510	281961	19228275	362711.71	11484.93	75356.95	27123.87	3.16
14										
15	COMMUNITY TOTAL									
16	6.89	288374	291606	285992	19417854	362728.11	11485.63	75357.29	27123.87	3.16
17										
18	CLEVELAND, OHIO									
19	(BURKE LAKEFRONT)									
20	0.01	2418	2459	2410	90787					
21	(HOPKINS INTERNATIONAL)									
22	1.04	55741	56119	55436	2938447	26738.64	1819.34	10673.98	835.21	
23										
24	COMMUNITY TOTAL									
25	1.05	58159	58578	57846	2389234	26738.64	1819.34	10673.98	835.21	
26										
27	DALLAS-FORT WORTH, TEXAS									
28	(LOVE FIELD)									
29	0.83	31681	32136	31641	2342187	2.50				
30	(DALLAS-FT.WORTH REGIONAL)									
31	3.70	167004	168150	166167	10433026	91292.97	1314.07	44375.16	2207.11	23.58
32										
33	COMMUNITY TOTAL									
34	4.53	198685	200286	197808	12775213	91295.47	1314.07	44375.16	2207.11	23.58
35										
36	DENVER, COLORADO									
37	(STAPLETON INTERNATIONAL)									
38	3.41	158118	160228	157103	9615785	53774.47	1096.22	28618.86	3182.26	
39										
40	DETROIT&ANN ARBOR, MICHIGAN									
41	(DETROIT CITY)									
42	0.00	1152	1178	1146	25519					
43	(DETROIT METROPOLITAN WAYNE CTY)									
44	1.78	86277	88757	87305	5025216	42215.61	709.39	21894.70	4046.74	
45										
46	COMMUNITY TOTAL									
47	1.78	89429	89935	88451	5050735	42215.61	709.39	21894.70	4046.74	
48										
49	HONOLULU, OAHU, HAWAII									
50	(HONOLULU INTERNATIONAL)									
51	2.60	46321	47358	42955	5656946	82892.66	269.67	15773.57	5367.23	739.12
52										
53	HOUSTON, TEXAS									
54	(HOUSTON INTERCONTINENTAL)									
55	1.27	78987	79779	78217	4998642	45656.22	745.09	14621.25	2035.86	48.01
56	(WILLIAM P HOBBY)									
57	0.66	24001	24362	23744	1807985	405.70	41.49	14.29		
58										
59	COMMUNITY TOTAL									
60	2.41	102988	104141	101961	6806627	46061.92	786.58	14635.54	2035.86	48.01
61										
62	LAS VEGAS, NEVADA									
63	(MC CARRAN INTL)									
64	1.64	65857	66016	62164	4629185	3328.72	84.89	2739.62	61.36	
65										
66	LOS ANGELES/RUMBNK/LNG.BCH.CAL									
67	(HOLLYWOOD-BURBANK)									
68	0.33	13057	13168	12443	942352	11058.80	38.38	128.41	.04	
69	(LONG BEACH)									
70	0.02	834	811	794	62593	25.47				
71	(LOS ANGELES INTERNATIONAL)									
72	5.03	187314	190261	184104	14157305	318965.05	10371.05	49069.58	14589.54	56.97
73	(ORANGE COUNTY)									
74	0.41	23394	24565	22900	1179568	968.34	215.59	.55	.01	
75										
76	COMMUNITY TOTAL									
77	5.79	226603	230805	222241	16341813	331017.66	10625.02	49198.54	14589.59	56.97
78										
79	MIAMI/FT LAUDERDALE, FLORIDA									
80	(FT. LAUDERDALE-HOLLYWOOD INTL)									
81	1.03	43041	42624	41893	2900768	8755.24	398.86	6996.72	38.04	.04
82	(MIAMI INTERNATIONAL)									
83	2.89	103179	102544	100502	8136235	629237.88	1466.06	153738.67	3553.22	215.03
84										
85	COMMUNITY TOTAL									
86	3.92	146220	145168	142395	11037003	637993.12	1864.92	160733.39	3591.26	215.07
87										
88	MINNEAPOLIS/ST. PAUL, MINNESOTA									
89	(MINNEAPOLIS-ST PAUL INTL)									
90	1.55	77823	78456	76956	4384643	41118.43	574.52	20504.83	3099.56	54.62
91										
92	NEWARK, NEW JERSEY									
93	(NEWARK)									
94	1.43	56827	57110	55873	4206011	29354.19	1598.12	15270.81	7661.64	.55
95										
96	NEW ORLEANS, LOUISIANA									
97	(INTERNATIONAL/MOISANT FIELD)									
98	1.10	50435	50953	50103	3107183	10536.02	202.24	6646.48	46.62	
99										
100	NEW YORK, NEW YORK									
101	(JOHN F KENNEDY INTL)									
102	3.24	87002	86679	84552	9119472	388679.78	2635.94	82392.05	27121.32	139.62
103	(LA GUARDIA)									
104	7.98	106859	104412	102711	8400961	18346.80	1562.66	25454.24	4486.17	
105										
106	COMMUNITY TOTAL									
107	6.22	193861	191087	187263	17520433	407026.58	4198.60	107846.29	31607.49	139.62
108										
109	ORLANDO, FLORIDA									
110	(MCCOY AFB)									
111	1.11	56282	56691	55792	3124568	19672.30	394.76	3652.29	145.91	.02
112										
113										

Table 4.9 - continued

ARCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT LARGE AIR TRAFFIC HUBS

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Community (Airport Name) Percent of Rk.-comments	Aircraft departures: Total performed	Aircraft departures: Scheduled	Aircraft departures: Scheduled completed	Enplaned passengers	Enplaned revenue tons: Freight	Enplaned revenue tons: Express	Enplaned revenue tons: U.S. Mail: Priority	Enplaned revenue tons: U.S. Mail: Nonpriority	Enplaned revenue tons: Foreign mail
	1	2	3	4	5	6	7	8	9	10
1	PHILADELPHIA,PA/CAMDEN,NJ									
2	(INTERNATIONAL)									
3	1.44	64369	64043	63644	4058167	40936.78	1108.38	19979.36	10492.33	
4										
5	PHOENIX, ARIZONA									
6	(PHOENIX SKY HARBOR INTL)									
7	1.20	66792	67893	66750	3380121	13982.11	452.59	6840.64	2146.69	
8										
9	PITTSBURGH,PA/WHEELING W VA									
10	(GREATER PITTSBURGH)									
11	1.91	95909	96266	95347	5381659	101743.86	614.44	16181.82	2715.63	
12										
13	ST. LOUIS, MISSOURI									
14	(LAMBERT-ST LOUIS MUNI)									
15	1.89	100674	102837	99871	5319480	19613.95	439.55	21815.42	2647.49	
16										
17	SAN FRANCISCO/OAKLAND, CAL.									
18	(OAKLAND METROPOLITAN INTL)									
19	0.32	15473	15595	14959	928084	1452.25	20.77	364.92		
20	(SAN FRANCISCO INTL)									
21	3.36	119003	120203	116847	9402284	177982.81	3562.66	39817.31	16672.51	14.60
22										
23	COMMUNITY TOTAL									
24	3.66	134476	135798	131606	10330368	179435.06	3583.43	40182.23	16672.51	14.60
25										
26	SEATTLE/TACOMA, WASHINGTON									
27	(BOEING FIELD INTL.)									
28	0.00	11	6	6	457	.05	.10	.14		
29	(SEATTLE-TACOMA INTERNATIONAL)									
30	1.54	65430	66490	66085	4352639	117533.32	1301.61	22517.80	5394.16	170.62
31										
32	COMMUNITY TOTAL									
33	1.54	65441	66496	66091	4352896	117533.37	1301.71	22517.94	5394.16	170.62
34										
35	TAMPA#ST.PTSBG/CLWTR#LKLND.FLA									
36	(TAMPA INTERNATIONAL)									
37	1.27	65730	66274	65293	3600730	15417.96	1200.27	46131.31	255.51	
38										
39	WASHINGTON, DIST. OF COL.									
40	(DULLES INTERNATIONAL)									
41	0.39	15774	15762	15557	1107966	6997.76	119.81	9551.42	11800.71	
42	(WASHINGTON NATIONAL)									
43	2.36	103445	102049	100319	6648087	27638.49	536.57	37247.77	7974.80	.54
44										
45	COMMUNITY TOTAL									
46	2.75	119219	117811	115876	7756053	34636.25	656.38	46799.19	19775.51	.54
47										
48	OVER-ALL TOTAL,									
49	LARGE HUBS									
50	70.38	2887239	2905923	2840474	197679376	2951422.92	56888.33	916829.15	172759.78	1470.52
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Table 4.10

AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT MEDIUM AIR TRAFFIC HUBS

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Community (Airport Name) Percent of Enplanements	Aircraft departures: Total performed	Aircraft departures: Scheduled	Aircraft departures: Scheduled completed	Enplaned passengers	Enplaned revenue tons: Freight	Enplaned revenue tons: Express	Enplaned revenue tons: U.S. Mail: Priority	Enplaned revenue tons: U.S. Mail: Nonpriority	Enplaned revenue tons: Foreign mail
	1	2	3	4	5	6	7	8	9	10
1	ALBUQUERQUE, NEW MEXICO									
2	(ALBUQUERQUE SUNPRT/KIRTLND AFB)									
3	0.40	25486	25986	25392	1127700	2325.24	21.22	2877.54	269.48	
4										
5	ANCHORAGE, ALASKA									
6	(ANCHORAGE INTERNATIONAL)									
7	0.31	18073	16628	15987	886877	134477.31	800.52	10213.14	10674.18	22.25
8	(ELMENDORF AFB)									
9	0.00	3	2	2	131			.11		
10										
11	COMMUNITY TOTAL									
12	0.31	18076	16630	15989	887008	134477.31	800.52	10213.27	10674.18	22.25
13										
14	AUSTIN, TEXAS									
15	(ROBERT MUELLER MUNI)									
16	0.31	16326	16494	16276	887905	1165.61	66.14	1662.71	.71	
17										
18	BALTIMORE, MARYLAND									
19	(BALTO/WASH INTL)									
20	0.58	35409	36340	34804	1652494	11764.64	410.13	7379.77	2270.88	
21										
22	BIRMINGHAM, ALABAMA									
23	(BIRMINGHAM MUNI)									
24	0.25	18525	18555	18347	705297	2102.23	134.30	3215.20	23.77	
25										
26	BUFFALO/NIAGARA FALLS,NEW YORK									
27	(GREATER BUFFALO INTERNATIONAL)									
28	0.56	32123	32372	31882	1540313	8409.27	359.49	4677.17	1929.88	
29										
30	CHARLOTTE, NORTH CAROLINA									
31	(DOUGLAS MUNI)									
32	0.52	32274	32955	32103	1480787	11481.96	453.21	7503.83	19.17	
33										
34	CINCINNATI, OHIO									
35	(GREATER CINCINNATI)									
36	0.49	26990	29102	28845	1391638	12172.64	194.53	5245.99	1145.00	
37										
38	COLUMBUS, OHIO									
39	(PORT COLUMBUS INTERNATIONAL)									
40	0.43	23934	23907	23710	1219950	4233.57	113.66	4396.73	795.47	
41										
42	DAYTON, OHIO									
43	(JAMES M COX DAYTON MUNI)									
44	0.31	19939	20379	19853	889035	3683.75	168.67	2825.09	9.87	
45										
46	EL PASO, TEXAS									
47	(EL PASO INTERNATIONAL)									
48	0.33	17749	17809	17687	940278	6246.03	130.74	1915.89	5.34	
49										
50	GREENSBORO/HIGH PT/WINSTN,N.C.									
51	(GREENSBORO-HIGH PT-WINSTN REG.)									
52	0.24	14098	18600	17983	696327	2629.76	358.73	3087.85	19.54	
53	(SMITH-REYNOLDS)									
54	0.01	3468	3153	3089	35059	156.80	.11	6.82		
55										
56	COMMUNITY TOTAL									
57	0.25	21566	21753	21072	731386	2786.56	358.84	3094.67	19.54	
58										
59	HARTFD,CONN/SPGFLD&WESTFLD,MASS									
60	(BRADLEY INTL)									
61	0.49	26417	26451	26134	1401135	11421.95	320.36	4896.94	1277.66	.01
62										
63	INDIANAPOLIS, INDIANA									
64	(INDIANAPOLIS MUNI/WEIR-COOK/)									
65	0.52	29832	30164	29627	1464569	7443.86	372.49	8132.79	1011.22	
66										
67	JACKSONVILLE, FLORIDA									
68	(JACKSONVILLE INTERNATIONAL)									
69	0.31	17297	17410	17192	872979	2062.21	2826.67	44077.00	8.74	
70										
71	KAHULUI, MAUI, HAWAII									
72	(KAHULUI)									
73	0.48	18921	19311	16548	1372592	1614.62		562.33	359.14	
74										
75	KANSAS CITY, MISSOURI									
76	(INTERNATIONAL)									
77	0.93	57221	57587	56628	2620100	11044.23	187.20	15211.48	314.42	
78	(KANSAS CITY MUNI)									
79	0.00	3521	3594	3440	16654	29.89	7.62	.02		
80										
81	COMMUNITY TOTAL									
82	0.93	60742	61181	60068	2636754	11074.12	196.82	15211.50	314.42	
83										
84	LIHUE, KAUAI, HAWAII									
85	(LIHUE)									
86	0.51	10093	9746	8716	888916	692.97		232.31	181.29	
87										
88	LOUISVILLE, KENTUCKY									
89	(STANDIFORD FIELD)									
90	0.35	24991	25095	24834	993355	4532.59	167.86	5662.19	1.55	
91										
92	MEMPHIS, TENNESSEE									
93	(MEMPHIS INTERNATIONAL)									
94	0.76	55840	56326	55558	2148730	12159.75	441.60	10826.74	170.89	
95										
96	MILWAUKEE, WISCONSIN									
97	(GENERAL MITCHELL FIELD)									
98	0.57	40854	41246	40159	1623318	6363.74	176.57	8196.40	101 78	
99										
100	NASHVILLE, TENNESSEE									
101	(METROPOLITAN)									
102	0.39	28315	28472	28164	1122084	4941.67	216.52	3877.62	363.97	
103										
104	NORFLK/VA BCH/PTSMH/CHESPKE,VA									
105	(NORFOLK REGIONAL)									
106	0.33	20517	20717	20362	951175	1347.61	78.35	428.21	12.43	
107										
108	OKLAHOMA CITY, OKLAHOMA									
109	(WILL ROGERS WORLD)									
110	0.38	20544	20731	20400	1076613	2937.10	34.36	5318.31	167.16	
111										
112										

Table 4.10 - continued

AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT MEDIUM AIR TRAFFIC HUBS

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Community (Airport Name) Percent of Enplanements	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	U.S. Mail		Foreign mail
								Priority	Nonpriority	
	1	2	3	4	5	6	7	8	9	10
1	OMAHA, NEBRASKA									
2	(EPPLEY AIRFIELD)									
3	0.30	18151	18163	17846	848117	2680.43	72.47	6833.66	125.74	
4										
5	ONTARIO/SAN BERNARD/RIVERSE,CA									
6	(ONTARIO INTERNATIONAL)									
7	0.34	23606	23995	22822	982363	1770.23	52.76	51.89	19.26	
8	(RIVERSIDE MUNI)									
9	0.00	25	44	25	27	-				
10										
11	COMMUNITY TOTAL									
12	0.34	23631	24039	22847	982390	1770.23	52.76	51.89	19.26	
13										
14	PORTLAND, OREGON									
15	(PORTLAND INTERNATIONAL)									
16	0.64	34767	35700	34478	1804395	22671.54	297.25	5866.25	1464.46	
17										
18	RALEIGH/DURHAM, NORTH CAROLINA									
19	(RALEIGH-DURHAM)									
20	0.30	20243	20650	20044	866007	3644.61	330.02	3341.24	154.13	
21										
22	RENO, NEVADA									
23	(RENO INTL)									
24	0.41	20157	20352	19797	1164839	1438.14	83.65	1772.29	.76	
25										
26	ROCHESTER, NEW YORK									
27	(ROCHESTER-MONROE COUNTY)									
28	0.30	19161	19328	19078	870480	2349.69	106.45	3028.24	221.65	
29										
30	SACRAMENTO, CALIFORNIA									
31	(SACRAMENTO METROPOLITAN)									
32	0.38	19036	19405	18561	1095186	1051.16	118.09	4351.86	1.09	
33										
34	SALT LAKE CITY, UTAH									
35	(SALT LAKE CITY INTL)									
36	0.70	42455	43091	41887	1996706	9183.36	244.88	7175.02	375.88	
37										
38	SAN ANTONIO, TEXAS									
39	(SAN ANTONIO INTERNATIONAL)									
40	0.54	24954	25034	24755	1533658	5230.04	202.58	4610.39	60.69	
41										
42	SAN DIEGO, CALIFORNIA									
43	(SAN DIEGO INTNL-LINDBERGH FLD)									
44	0.90	38059	38481	37269	2536337	10348.37	213.78	5945.91	20.12	
45										
46	SAN JOSE, CALIFORNIA									
47	(SAN JOSE MUNI)									
48	0.49	27486	28155	26978	1391058	4247.04	171.92	1335.38	2.45	
49										
50	SAN JUAN, PUERTO RICO									
51	(PUERTO RICO INTERNATIONAL)									
52	0.65	13740	13667	13386	1839283	53445.57	152.19	1550.44	2009.16	
53										
54	SPOKANE, WASHINGTON									
55	(SPOKANE INTERNATIONAL)									
56	0.20	18935	19431	18513	747189	2522.40	39.12	1958.11	23.48	
57										
58	SYRACUSE, NEW YORK									
59	(CLARENCE E HANCOCK)									
60	0.28	19211	19389	19078	794244	6171.76	156.06	1728.54	46.76	
61										
62	TUCSON, ARIZONA									
63	(TUCSON INTL)									
64	0.31	19914	20265	19163	875881	2898.17	110.17	1650.29	51.00	
65										
66	TULSA, OKLAHOMA									
67	(TULSA INTL)									
68	0.36	19498	19768	19384	1029951	4335.99	97.41	4240.85	861.20	
69										
70	WEST PALM BEACH/PALM BEACH,FLA									
71	(PALM BEACH INTERNATIONAL)									
72	0.45	24607	24688	24395	1282940	2318.75	90.62	1277.97	8.77	
73										
74	OVER-ALL TOTAL,									
75	MEDIUM HUBS									
76	18.15	1048726	1058438	1031238	51664627	403744.27	10580.47	229346.73	26560.14	22.26
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Table 4.11

AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT SMALL AIR TRAFFIC HUBS

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Community (Airport Name) Percent of Enplanements	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	US Mail		Foreign mail
								Priority	Nonpriority	
	1	2	3	4	5	6	7	8	9	10
1	AKRON/CANTON, OHIO									
2	(AKRON-CANTON)									
3	0.05	3866	3879	3826	143366	278.66	28.53	25726.50		
4										
5	ALBANY, NEW YORK									
6	(ALBANY COUNTY)									
7	0.23	14455	14488	14412	659135	918.35	31.58	1401.94	1.73	
8										
9	ALLENTOWN/BETHLEHEM/EASTON, PA									
10	(ALLENTOWN-BETHLEHEM-EASTON)									
11	0.09	6335	7283	6308	273839	400.26	14.86	219.00	4.56	
12										
13	AMARILLO/BORGER, TEXAS									
14	(AMARILLO AIR TERMINAL)									
15	0.12	7625	7747	7558	355685	358.13	4.23	679.87	.01	
16										
17	ASHEVILLE, NORTH CAROLINA									
18	(ASHEVILLE MUNI)									
19	0.05	6154	6293	6117	165085	365.45	24.51	362.32		
20										
21	AUGUSTA, GEORGIA									
22	(BUSH FIELD)									
23	0.06	3452	3463	3433	181925	563.28	15.24	193.59		
24										
25	BANGOR, MAINE									
26	(BANGOR INTERNATIONAL)									
27	0.05	2579	2585	2566	144677	933.17	.64	86.46		
28										
29	BATON ROUGE, LOUISIANA									
30	(RYAN)									
31	0.09	6585	6675	6530	273479	379.12	16.18	133.90		
32										
33	BILLINGS, MONTANA									
34	(LOGAN FIELD)									
35	0.11	11362	11724	11337	329779	686.15	10.44	1292.71	6.46	
36										
37	BISMARCK/MANDAN, NORTH DAKOTA									
38	(BISMARCK MUNI)									
39	0.06	7753	7975	7717	175261	336.31	3.16	315.09	1.61	
40										
41	BOISE, IDAHO									
42	(BOISE AIR TERMINAL/GOWEN FIELD)									
43	0.15	13139	13252	12794	463865	961.65	75.23	1499.26	7.04	
44										
45	BOISE CITY/GUYMON/HOOKER/SLATON/TEXAS									
46	(BURT FIELD)									
47	0.07	7583	8129	7934	211283	995.71	66.33	378.25	.01	
48										
49	BROWNSVILLE/HARLINGEN/SAN BENITO, TEX									
50	(HARLINGEN INDUSTRIAL AIRPARK)									
51	0.10	3454	3456	3396	283767					
52	ERIE (ERIE INTL)	1308	1328	1297	85920	237.01	1.07	7.94		
53	0.33									
54										
55	COMMUNITY TOTAL	4712	4784	4693	369687	237.01	1.07	7.94		
56	0.14									
57										
58	BURLINGTON, VERMONT									
59	(BURLINGTON INTERNATIONAL)									
60	0.07	7621	7778	7548	202651	758.07	1.56	113.22		
61										
62	CEDAR RAPIDS/IOWA CITY, IOWA									
63	(EASTERN IOWA MUNI)									
64	0.08	8281	8532	8238	242559	828.92	53.37	552.13	.51	
65										
66	CHARLESTON, SOUTH CAROLINA									
67	(CHARLESTON AFB/INDL)									
68	0.15	8255	8285	8201	432189	804.83	41.13	801.97	10.10	
69										
70	CHARLESTON/DUNBAR, W. VIRGINIA									
71	(KANAWHA)									
72	0.07	6553	6680	6524	220217	593.58	33.96	384.84		
73										
74	CHATTANOOGA, TENNESSEE									
75	(LOVELL FIELD)									
76	0.08	5571	5594	5538	252245	656.98	29.08	1155.91		
77										
78	CHRISTIANSTED, ST. CROIX, V.I., US									
79	(ALEXANDER HAMILTON)									
80	0.07	3853	3576	3545	147196	346.53		128.60	1.06	
81										
82	COLORADO SPRINGS, COLORADO									
83	(PETERSON FIELD)									
84	0.39	6643	6778	6502	276119	840.31	9.28	27.39	.99	
85										
86	COLUMBIA, SOUTH CAROLINA									
87	(COLUMBIA METROPOLITAN)									
88	0.14	8266	8290	8169	416684	1331.32	117.13	1669.19	1.74	
89										
90	CORPUS CHRISTI, TEXAS									
91	(CORPUS CHRISTI INTERNATIONAL)									
92	0.13	5514	5602	5494	369501	476.53	16.12	84.46	.06	
93										
94	DAYTONA BEACH, FLORIDA									
95	(DAYTONA BEACH REGIONAL)									
96	0.13	7575	7805	7535	377924	560.85	35.37	.85	.30	
97										
98	DES MOINES, IOWA									
99	(DES MOINES MUNI)									
100	0.21	14067	14342	13745	596312	1506.85	45.59	5127.50	29.26	
101										
102	EUGENE, OREGON									
103	(MAHLON SWEET FIELD)									
104	0.08	6615	6651	6219	232176	367.04	21.08	647.05		
105										
106	EVANSVILLE, INDIANA									
107	(EVANSVILLE DRESS REGIONAL)									
108	0.07	4072	4092	4047	210779	854.57	43.51	169.96	13.89	
109										
110	FAIRBANKS, ALASKA									
111	(FAIRBANKS INTERNATIONAL)									
112	0.07	7517	7168	6364	206436	3707.84	.11	2249.86	1502.21	

Table 4.11 - continued

AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT SMSA AIR TRAFFIC HUBS

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Community (Airport Name) Percent of Enplanements	Aircraft departures			Enplaned passengers	Enplaned revenue tons				
		Total performed	Scheduled	Scheduled completed		Freight	Express	U.S. Mail		Foreign mail
								Priority	Nonpriority	
	1	2	3	4	5	6	7	8	9	10
1	FARGO,N.D./MOORHEAD, MINNESOTA									
2	(HECTOR FIELD)									
3	0.06	6199	6272	6151	179826	374.59	1.39	786.00	3.98	
4										
5	FORT MYERS, FLORIDA									
6	(PAGE FIELD)									
7	0.19	10403	10468	10313	546422	980.07	78.48	54.41	2.99	
8										
9	FORT WAYNE, INDIANA									
10	(MUNICIPAL/BAER FIELD)									
11	0.08	11014	11174	10963	239431	490.33	30.23	445.32		
12										
13	FRESNO, CALIFORNIA									
14	(FRESNO AIR TERMINAL)									
15	0.14	11340	11942	11197	395162	589.41	61.01	764.81	.01	
16										
17	GAINESVILLE, FLORIDA									
18	(GAINESVILLE MUNI)									
19	0.06	2995	2999	2983	177196	217.68	84.53	49.65	.85	
20										
21	GRAND JUNCTION, COLORADO									
22	(WALKER FIELD)									
23	0.05	2967	2688	2857	136679	334.47	7.68	109.40	.08	
24										
25	GRAND RAPIDS, MICHIGAN									
26	(KENT COUNTY)									
27	0.15	12542	12640	12402	429505	903.85	54.62	916.17		
28										
29	GREEN BAY/CLINTONVILLE, WIS.									
30	(AUSTIN-STRAUBEL FIELD)									
31	0.10	10895	11055	10746	299342	1205.39	3.07	482.49		
32										
33	GREENVILLE&SPARTANBURG, S.C.									
34	(GREENVILLE-SPARTANBURG)									
35	0.11	5818	5842	5745	329354	752.62	313.09	1293.29	.55	
36										
37	AGANA NAS, GUAM ISLAND									
38	(AGANA FIELD)									
39	0.05	2039	2070	2007	152630	2792.18		1366.84	489.21	.06
40										
41	HARRISBURG/YORK, PA.									
42	(HARRISBURG INTERNATIONAL)									
43	0.10	4411	4441	4351	284299	665.96	8.79	266.95		
44										
45	HILO, HAWAII, HAWAII									
46	(GENERAL LYMAN FIELD)									
47	0.18	7863	6620	6093	515311	9419.82	2.42	781.81	348.64	
48										
49	HUNTSVILLE&DECATUR, ALABAMA									
50	(MADISON COUNTY JETPORT)									
51	0.08	7768	7816	7721	240363	682.46	6.84	80.21		
52										
53	INDIO/PALM SPRINGS, CALIFORNIA									
54	(PALM SPRINGS MUNI)									
55	0.07	3901	3916	3725	216224	162.69	9.92	.16		
56										
57	JACKSON-VICKSBURG, MISS.									
58	(ALLEN C THOMPSON FIELD)									
59	0.13	10435	10485	10401	387000	1676.36	7.65	1449.05		
60										
61	JUNEAU, ALASKA									
62	(JUNEAU MUNI)									
63	0.05	3907	4004	3819	155911	1241.36		639.24	143.09	
64										
65	KAILUA-KONA, HAWAII, HAWAII									
66	(KE-AHOLE)									
67	0.18	6455	6625	5769	507824	1300.89		231.71	129.41	
68										
69	KNOXVILLE, TENNESSEE									
70	(MC GHEE TYSON)									
71	0.15	9195	9186	9109	430153	1815.89	55.41	1799.73	2.01	
72										
73	LANSING, MICHIGAN									
74	(CAPITAL CITY)									
75	0.06	7295	7358	7228	181343	208.14	9.41	131.20		
76										
77	LEXINGTON/FRANKFORT, KENTUCKY									
78	(BLUE GRASS)									
79	0.11	7676	7556	7441	320061	1045.77	67.21	1069.70	.01	
80										
81	LINCOLN, NEBRASKA									
82	(LINCOLN MUNI)									
83	0.06	7193	7360	7120	177227	268.52	75.43	448.79		
84										
85	LITTLE ROCK, ARKANSAS									
86	(ADAMS FIELD)									
87	0.23	12641	12803	12218	648043	1852.87	90.65	2063.17	22.49	
88										
89	LUBBOCK, TEXAS									
90	(LUBBOCK REGIONAL)									
91	0.16	9375	9515	9294	469215	677.21	1.84	349.24		
92										
93	MADISON, WISCONSIN									
94	(TRUAX FIELD)									
95	0.12	10806	10967	10692	352745	1045.68	9.98	468.77		
96										
97	MELBOURNE, FLORIDA									
98	(CAPE KENNEDY REGIONAL)									
99	0.06	3722	3761	3714	184059	320.06	26.47	1.22		
100										
101	MIDLAND/ODESSA, TEXAS									
102	(MIDLAND REGIONAL)									
103	0.17	8218	8368	8181	491157	936.71	2.92	473.48		
104										
105	MOBILE, AL/PASCAGOULA, MISS									
106	(BATES FIELD)									
107	0.11	10201	10415	10139	324094	374.57	55.30	379.58	1.90	
108										
109	MOLINE, ILLINOIS/DAVENPORT, IOWA									
110	(QUAD-CITY)									
111	0.09	9447	9661	9284	277255	331.53	15.38	766.25	17.10	
112										

Table 4.11 - continued

AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT SMALL AIR TRAFFIC HUBS

12 MONTHS ENDED DECEMBER 31, 1980

Line No.	Community (Airport Name) Percent of Enplanements	Aircraft departures: Total performed	Aircraft departures: Scheduled	Aircraft departures: Scheduled completed	Enplaned passengers	Enplaned revenue tons: Freight	Enplaned revenue tons: Express	Enplaned revenue tons: U.S. Mail: Priority	Enplaned revenue tons: U.S. Mail: Nonpriority	Enplaned revenue tons: Foreign mail
	1	2	3	4	5	6	7	8	9	10
1	MONTGOMERY, ALABAMA									
2	(DANNELLY FIELD)									
3	0.07	4622	4633	4581	202390	469.68	23.95	309.01		
4										
5	PENSACOLA, FLORIDA									
6	(PENSACOLA REGIONAL)									
7	0.08	4705	4750	4676	247834	360.53	144.65	2226.70	3.89	.08
8										
9	PEORIA, ILLINOIS									
10	(GREATER PEORIA)									
11	0.36	7981	8494	7895	193833	669.16	.06	390.42	.83	
12										
13	PORTLAND, MAINE									
14	(PORTLAND INTERNATIONAL JETPORT)									
15	0.08	4897	4958	4884	251552	1113.56	20.00	328.72		
16										
17	PROVIDENCE, RHODE ISLAND									
18	(THEODORE FRANCIS GREEN STATE)									
19	0.16	9539	9603	9487	459316	1184.39	35.29	1601.60	6.87	
20										
21	RAPID CITY, SOUTH DAKOTA									
22	(RAPID CITY REGIONAL)									
23	0.09	5400	5461	5384	143451	272.45	13.18	259.05	1.62	
24										
25	RICHMOND, VIRGINIA									
26	(RICHARD E BYRD FLYING FIELD)									
27	0.22	18407	20315	18290	619775	1268.53	20.21	916.80	1.28	
28										
29	ROANOKE, VIRGINIA									
30	(ROANOKE MUNI)									
31	0.13	13486	13716	13430	382167	1146.07	5.47	207.41		
32										
33	ROCHESTER, MINNESOTA									
34	(ROCHESTER MUNI)									
35	0.05	5324	5541	5280	152128	209.87	.78	36.31		
36										
37	SAGINAW/BAY CITY/MIDLAND,MICH.									
38	(TRI CITY)									
39	0.06	5711	5809	5679	191130	295.91	10.25	149.30		
40										
41	SALINAS/MONTEREY, CALIFORNIA									
42	(PENINSULA)									
43	0.07	7694	8056	7647	207538	220.05	20.39	8.61	.55	
44										
45	SANTA BARBARA CALIFORNIA									
46	(SANTA BARBARA)									
47	0.07	13931	14478	13536	218521	105.32	29.45	3.22	.11	
48	(SANTA MARIA PUBLIC)	2775	2644	2521	24494	7.03				
49	0.00									
50										
51	COMMUNITY TOTAL	16706	17122	16057	243015	112.35	29.45	3.22	.11	
52	0.07									
53										
54	SARASOTA/BRADENTON, FLORIDA									
55	(SARASOTA-BRADENTON)									
56	0.20	11298	11429	11259	575194	773.32	35.47	5.02	.19	
57										
58	SAVANNAH, GEORGIA									
59	(SAVANNAH MUNI)									
60	0.13	5628	5656	5607	370649	492.24	11.36	171.93		
61										
62	SCRANTON/WILKES-BARRE, PENNA.									
63	(WILKES-BARRE-SCRANTON)									
64	0.05	3169	3403	3154	151498	168.16	1.71	47.77	.65	
65										
66	SHREVEPORT, LOUISIANA									
67	(GREATER SHREVEPORT MUNI)									
68	0.14	11176	11221	11161	420224	1576.65	29.59	1239.35		
69										
70	SIOUX FALLS, SOUTH DAKOTA									
71	(JOE FOSS FIELD)									
72	0.08	11007	11296	10870	233851	809.05	13.17	1022.77	2.73	
73										
74	SOUTH BEND, INDIANA									
75	(ST JOSEPH COUNTY)									
76	0.05	6353	6432	6277	159349	332.51	21.95	138.52		
77										
78	TALLAHASSEE, FLORIDA									
79	(TALLAHASSEE MUNI)									
80	0.10	7401	7473	7351	303719	2178.79	819.66	43384.61	231.46	
81										
82	TOLEDO, OHIO									
83	(TOLEDO EXPRESS)									
84	0.09	8605	8686	8549	274162	510.03	32.89	26672.66	.46	
85										
86	WICHITA, KANSAS									
87	(WICHITA MUNI)									
88	0.19	16524	17061	16441	560407	2920.33	25.78	2946.24	9.08	
89										
90	OVER-ALL TOTAL,									
91	SMALL HUBS									
92	7.94	598559	608738	588536	23393324	70688.62	3106.87	145112.08	3003.94	.14
93										
94										
95										
96										
97										
98										
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102										
103										
104										
105										
106										
107										
108										
109										
110										
111										
112										

COMMUTERS

The commuter air carrier data were obtained from Commuter Air Carrier submissions of CAB Form 298-C, Schedule T-1, "Report of Revenue Traffic by On-Line Origin and Destination," published in the COMMUTER AIR CARRIER TRAFFIC STATISTICS by the Civil Aeronautics Board (CAB).

Data in this section of Chater IV include passenger miles flown, tons of mail and cargo carried, annual counts of passenger markets and the number of commuters that carry passengers, and passenger destinations by state of origin. A market is service between two cities.

Commuter carriers reporting activities performed in scheduled service to CAB are not necessarily the same carriers reporting multiengine aircraft data to FAA as indicated in the tables in Chapter V of this publication.

TABLE 4.12

COMMUTER AIR CARRIERS
AS OF DECEMBER 31, 1980

AAA - Air Enterprises
AAA - Action Air Carrier
Aero Virgin Island Corp.
Aeromech Inc.
Aerotransit Inc.
Air Atlantic Airlines
Air Bahia
Air Cargo America
Air Cargo Enterprises
Air Carolina
Air Central Inc.
Air Chico
Air Express Inc.
Air Hawaii
Air Hawaii
Air Illinois
Air Miami Inc.
Air Nebraska
Air Nevada
Air North
Air North Inc.
Air Oregon
Air Polynesia Inc.
Air Tours
Air List Commuter
Airpac
Airways of New Mexico
Alamo Commuter Airlines
Alaska Aeronautical Ind.
Alaska Central Airways
All Seasons Air Pacific
American Inter-Island
Amistac Airlines
Andy's Flying Service
Antilles Air Boats
Aspa Air Inc.
Aztec Air East
Atlantic Southeast Airlines
Atlantis Airlines
Aviation Services

Bankair Inc.
Bar Harbor Airways
Bard-Air Corp.
Bellair
Bennington Aviation
Beyer Aviation
Big Horn Airways
Birchwood Air Service
Blackhawk Airways
Boise Air Service
Brennan and Hargraves
Britt Airlines
Britt Airways
Burlington Airways
Business Aircraft Corp.
C and M Airlines
Cape Smythe Air Service
Capitol Airlines
Cardinal Air Virginia
Caribbean Air Services
Cascade Airways
Catalina Airlines
Catskill Airways
Century Airlines
Century Airlines (California)
Chalk's Int'l Airline
Chandler Flyer
Channel Flying
Chaparral Airlines
Charlie Hammond's Flying Serv.
Chautauqua Airlines
Christman Air System
Clinton Aero Corp.
Coastal Air Ltd. Southeastern
Coker Aviation
Coleman Air Transport
Colgan Airways Corp.
Colorado Airlines
Comair Inc.
Command Airways

TABLE 4.12 (Continued)

COMMUTER AIR CARRIERS
AS OF DECEMBER 31, 1980

Commuter Airlines
Cook Inlet Aviation
Coral Air Inc.
Corporate Air
Cosmopolitan Commuter Airline
Crawford Aviation
Crown Airways
Crown Aviation
Cumberland Airlines
Decatur Aviation
Desert Airlines
Desert Pacific Airlines
DHL Airlines
Dickman Aviation Services
Dorado Wings
Downeast Airlines
Eagle Aviation
Eagle Commuter Airlines
East Hampton Aire
Eastern Caribbean Airways
Eastern Carolina Aviation
EDE Aire
EJA/Newport
Emmet County Aviation
Empire Aero Services
Empire Airlines
Erie Airways
Executive Aviation
Far West Airlines
Fayetteville Flying Service
Federal Armored Service
Flamenco Airways
Florida and Air South Airlines
Florida Commuter Airlines
Ford-Aire
Freedom Air
Freedom Airlines
French-Bowen Inc.
Galion Commuter Service
Gem Staff Airlines
General Aviation
Go Flying Inc.
Golden Carriage Air
Great Plains Airlines
Green Bay Airways
Green Hills Aviation
Green Mountain Airlines
Grognet Flying Service
Gromer Aviation
Gull Air Inc.
Gunnel Aviation
Harbor Airlines
Havasu Airlines
Hawking Inc.
Henson Aviation
Heussler Air Service
Holiday Airlines
Hyannis Aviation
IDFC Industries
Indo-Pacific International
Inland Empire Airlines
Island Airlines
Island Airlines Hawaii
Jamaire Inc.
Jer-Don Air
L.A.B. Flying Service
Lake State Airways
Landlake Aviation
Las Vegas Airlines
Lawrence Aviation
Magnum Airlines
Mall Airways
Marco Island Airways
Marshall's Air
Maxair Inc.
Mesaba Airlines
Metro Airlines
Metroplex Airlines
Mid South Commuter
Midstate Airlines
Midway Aviation
Montauk Caribbean and
Ocean Reef
Mountain Home Air Service

TABLE 4.12 (Continued)

COMMUTER AIR CARRIERS
AS OF DECEMBER 31, 1980

Mountain West Airlines
Nevada Airlines
New England Airlines
New Haven Airways
Nor East Commuter Airlines
Northaire
Northern Eagle Aviation
Ocean Airways
Ocean Reef Airways
Offshore Logistics
Omaha Aviation
Omak Aviation Airlines
Orion Air
P.S. Air Freight
Pacific Island Airways and Island Air
Pearson Aircraft
Pee Dee Air Express
Peninsula Airlines
Peninsula Airways
Pennsylvania Commuter Airlines
Perkiomen Airways Ltd.
Permian Airways
Phillips Airlines
Phoenix Airlines
Pilgrim Aviation and Airlines
Pioneer Airways
Pocono Airlines
Polar Airways
Ponderosa Airlines
Precision Valley Aviation
Princeton Aviation
Princeville Airways
Providence Air Charter
Provincetown-Boston Airlines
Puerto Rico International Airlines
Ransome Airlines
Realwest Airlines
Red Carpet Airlines
Richardson Avaiation
Rio Airways
Riverside Air Service
Rocky Mountain Airways
Roederer Aviation Inc.
Ross Aviation
Royal American Airways
Royal Hawaiian Airways
Royale Airlines
Royale-Air Ltd.
S.S. Airways
Saber Aviation
Samoan Airlines
San Juan Airlines
Scenic Airlines
Schlick Air Service
Scott Air
Sea Airmotive
Sedalia, Marshall, Roonville Stage Line
Semo Aviation
Shasta Air
Shavano Air
Sierra Express
Silver State Airlines
Simmons Aviation
Skycraft
Skycraft Inc.
Skyline Airlines
Skyway Aviation of Texas
Skywest Aviation
Soonair Lines
South Central Air Transport
South Coast Airways
South East Alaska Airlines
South Pacific Island Airways
Southern Jersey Airways
Southern Seaplane
Springfield Air Service
Stahmannfarms Inc.
Star Aviation Corp.
Sterling Air Service
Suburban Airlines
Sun Aire Lines
Sun International Airways
Sun West Airlines
Sunbird Airlines

TABLE 4.12 (Continued)

COMMUTER AIR CARRIERS
AS OF DECEMBER 31, 1980

Sunbird Inc.	Tropics International
Swift Aire Lines	Tuolumne Air Service
Tamara Ranches	Tyff Airlines
Tejas Airlines	U.S. Aviation
Tennessee Airways	Universal Airways
Terre Haute Commuter	Valdez Airlines
Thorson Aviation	Vale International Airlines
Trans Catalina Airlines	VEF Neal Aviation
Trans Commuter Airline	Vieques Air Link
Trans Island Airways	Virgin Air Inc.
Trans Micronesian Airways	Walker's Cay Airlines
Trans Mo Airlines	Westair Commuter Airlines
Trans National Airlines of Hawaii	Western Charter Inc.
Trans Sierra Airlines	Western Star Airlines
Trans Western Airlines of Utah	Wheeler Flying Service
Trans-California Airlines	Will's Air
Transstate Aviation	Wings West Airways
Tri-State Flite Service	Wings West Inc.
40 Mile Air	

Source: "Commuter Air Carrier Traffic Statistics," 12/31/80, Civil Aeronautics Board

TABLE 4.13

COMMUTER AIR CARRIER REPORTING TO CAB
SCHEDULED PASSENGER TRAFFIC, DECEMBER 31, 1971 - 1980

YEAR	O&D PASSENGERS (000)	PASSENGER MILES (000)	CARGO (LBS) (000)	MAIL (LBS) (000)	AIRPORTS SERVED	PASSENGER MARKETS	TOTAL MARKETS	COMMUTER CARRYING PASSENGERS	COMMUTER CARRYING CARGO	COMMUTER CARRYING MAIL	CARRIERS REPORTING
1971	4,698	473,242	51,203	100,683	*	1,249	*	130	*	*	160
1972	5,262	528,144	74,573	126,177	643	1,304	*	143	*	*	184
1973	5,688	575,810	92,963	147,796	684	1,244	1,751	159	167	78	216
1974	6,842	708,709	138,279	156,293	736	1,351	1,971	158	165	81	213
1975	6,666	698,473	169,203	164,682	747	1,388	2,027	165	175	90	235
1976	7,305	770,784	216,811	108,597	781	,1,412	2,090	174	183	102	252
1977	8,505	946,179	271,242	71,395	764	1,594	2,258	179	171	77	242
1978	10,074	1,116,931	401,638	40,122	819	1,676	2,393	208	189	59	258
1979	11,054	1,324,267	182,613	13,341	824	2,105	2,450	227	174	49	257
1980	10,865	1,300,404	190,279	1,6101	816	2,087	2,502	240	193	66	286

* NO FIGURES AVAILABLE.

SOURCE: "COMMUTER AIR CARRIER TRAFFIC STATISTICS," 12/31/80, CIVIL AERONAUTICS BOARD

NOTE: "MARKETS" MEANS SERVICE BETWEEN TWO POINTS.

TABLE 4.14
PASSENGERS DESTINATION BY STATE OF ORIGIN
FOR CALENDAR YEAR 1980

STATE OF ORIGIN	50 STATES AND D.C.			INTERNATIONAL		
	PASSENGERS	PASSENGER - MILES (MIL.)	NO. OF MARKETS	PASSENGERS	PASSENGER - MILES (MIL.)	NO. OF MARKETS
ALABAMA	13,343	1.6	15	--	--	--
ALASKA	231,093	22.0	133	--	--	--
ARIZONA	289,209	49.8	64	11	*	1
ARKANSAS	239,409	47.5	66	--	--	--
CALIFORNIA	645,885	92.2	167	7,329	2.0	16
COLORADO	333,358	47.1	53	--	--	--
CONNECTICUT	317,095	41.9	64	1,782	4.5	5
DELAWARE	---	--	--	--	--	--
DISTRICT OF COLUMBIA	675,965	84.6	52	--	--	--
FLORIDA	328,110	38.1	67	77,786	11.6	11
GEORGIA	--	--	--	--	--	--
DISTRICT OF COLUMBIA	675,965	84.6	52	--	--	--
FLORIDA	328,110	38.1	67	77,786	11.6	11
GEORGIA	108,516	17.8	27	--	--	--
HAWAII	252,255	20.7	63	--	--	--
IDAHO	94,250	18.2	60	--	--	--
ILLINOIS	594,520	85.1	85	--	--	--
INDIANA	252,591	34.6	19	--	--	--
IOWA	3,227	.6	18	--	--	--
KANSAS	74,654	5.8	11	--	--	--
KENTUCKY	45,413	6.9	11	--	--	--
LOUISIANA	188,856	31.3	46	--	--	--
MAINE	172,806	36.0	58	1,146	2	10
MARYLAND	519,329	28.4	36	--	--	--
MASSACHUSETTS	588,765	71.2	65	4,884	1.4	2
MICHIGAN	136,959	23.6	31	--	--	--
MINNESOTA	14,175	2.1	16	--	--	--
MISSISSIPPI	38,807	5.5	10	--	--	--
MISSOURI	251,641	30.0	82	--	--	--
MONTANA	124	*	3	--	--	--
NEBRASKA	32,984	6.8	33	--	--	--
NEVADA	272,689	47.1	27	--	--	--
NEW HAMPSHIRE	107,229	9.6	25	2	*	1
NEW JERSEY	443,444	48.9	75	11	*	1
NEW YORK	1,177,786	158.4	230	2,216	.4	7
NORTH CAROLINA	167,721	22.4	86	--	--	--
NORTH DAKOTA	2,872	.5	18	--	--	--
OHIO	270,773	32.6	34	--	--	--
OKLAHOMA	79,972	13.1	34	--	--	--
OREGON	211,200	38.6	100	--	--	--
PENNSYLVANIA	1,940,792	194.7	109	--	--	--
RHODE ISLAND	123,924	14.3	16	--	--	--
SOUTH CAROLINA	42,944	5.6	45	--	--	--
SOUTH DAKOTA	598	*	9	--	--	--
TENNESSEE	168,781	31.2	60	--	--	--
TEXAS	1,072,260	40.2	139	877	*	2
UTAH	52,574	9.2	29	--	--	--
VERMONT	37,244	5.6	26	--	--	--
VIRGINIA	198,542	32.0	66	--	--	--
WASHINGTON	351,136	45.5	137	572	*	1
WEST VIRGINIA	137,586	14.9	22	--	--	--
WISCONSIN	39,191	7.6	26	--	--	--
WYOMING	63,135	16.0	15	--	--	--
TOTAL U.S.	9,224,194	1,167.2	1,932	96,616		
TOTAL U.S. TERRITORIES	--	--	--	2,216,831	162.5	104
TOTAL FOREIGN	--	--	--	342,353	47.0	90
TOTAL - ALL	9,224,194	1,167.2	N/A	2,655,800	229.6	N/A

* FIGURE ROUNDED TO LESS THAN .1 MILLION

NOTE: "MARKETS" MEANS SERVICE BETWEEN TWO POINTS.

SOURCE: "COMMUTER AIR CARRIER TRAFFIC STATISTICS," 12/31/80, CIVIL AERONAUTICS BOARD

TABLE 4.15

DOMESTIC INTERCITY PASSENGER-MILES BY MODE OF TRAVEL AND CLASS OF SERVICE: 1971 THROUGH 1980
(In Millions)

Mode and Class	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Total	1,207,341	1,277,070	1,323,770	1,232,924	1,285,379	1,363,218	1,433,920	1,518,125	1,529,721	1,494,783
Total common carrier	136,341	148,070	157,770	161,924	162,379	176,218	188,020	213,625	241,821	231,383
Scheduled air carrier[1]	106,438	118,138	126,317	128,425	131,728	145,271	156,610	182,669	208,856	200,047
Regular service	19,370	21,956	23,564	24,602	23,622	24,400	25,441	29,665	41,853	37,447
Coach service	87,068	96,182	102,753	103,823	108,106	120,871	131,169	153,004	167,003	162,600
Class I line-haul railways[2]	4,403	4,332	5,053	5,799	5,251	5,847	5,710	5,556	6,365	4,436
First-class service	516	520	583	613	502	570	524	467	489	419
Coach service	3,887	3,812	4,470	5,186	4,749	5,277	5,186	5,089	5,876	4,017
Motor carriers[3] Class I, II, III	25,500	25,600	26,400	27,700	25,400	25,100	25,700	25,400	26,600	26,900
Private automobiles	1,071,000	1,129,000	1,166,000	1,071,000	1,123,000	1,187,000	1,245,900	1,304,500	1,287,900	1,263,400
Percent air to total	8.8	9.3	9.5	10.4	10.3	10.6	10.9	12.0	13.7	13.4
Percent air to total common carrier	78.1	79.8	80.1	79.3	81.1	82.4	83.3	85.5	86.4	86.5
Percent total rail to air	4.1	3.7	4.0	4.5	4.0	4.0	3.6	3.0	3.0	2.2
Percent first-class rail to total air	0.5	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2

1 Scheduled operations of domestic trunk and local service carriers.

2 Includes Pullman Company and excludes commutation.

3 Excludes intrastate and other local movements.

Source: Interstate Commerce Commission, Bureau of Economics; Bureau of Accounts and Statistics, CAB; and Transportation Facts and Trends, July 1980.

V. U.S. CIVIL AIR CARRIER FLEET

U.S. air carrier fleet data shown in this chapter were developed from monthly Aircraft/Engine Utilization Reports submitted by air carrier operators. The aircraft population shown in this chapter is not an inventory of the aircraft owned by the air carriers but represents the aircraft actually used by the air carrier fleet during December 1980.

The air carrier fleet size shown for 1979 is significantly larger than that for 1978. This increase is partly due to the deregulation of the airlines under the Airline Deregulation Act of 1978 and the associated entry of new carriers. The increase is also due to revised FAA reporting requirements. Beginning in 1979 multi engine aircraft in scheduled passenger and cargo service of the commuter air taxis must be reported as being in air carrier service. The first year these aircraft were counted as air carrier aircraft was 1979. A new class of air carrier was also created in 1979--the all cargo air service operators (Section 418). In the past these operators were classified as air taxi and aircraft used in the service were counted in the air taxi group.

TABLE 5.1

COMPOSITION OF U.S. AIR CARRIER FLEET BY TYPE OF AIRCRAFT:
DECEMBER 1971 through 1980

Year	Total	Fixed-wing Aircraft					Rotary-Wing Aircraft		
		Total Fixed-Wing	Turbine			Piston	Total Rotary-Wing	Turbine	Piston
			Total	Turbojet	Turboprop				
1971	2,642	2,628	2,482	2,132	350	146	14	11	3
1972	2,583	2,569	2,436	2,118	318	133	14	11	3
1973	2,599	2,586	2,449	2,145	304	137	13	10	3
1974	2,472	2,462	2,344	2,078	266	118	10	10	---
1975	2,495	2,488	2,374	2,114	260	114	7	7	---
1976	2,492	2,487	2,384	2,139	245	103	5	4	1
1977	2,473	2,470	2,402	2,168	234	68	3	3	---
1978	2,545	2,542	2,477	2,237	240	65	3	3	---
1979	3,609	3,608	3,053	2,486	566	556	1	1	---
1980	3,805	3,803	3,208	2,526	682	595	2	2	---

Note: Includes only those aircraft used during the last quarter. 1971-1978 does not include aircraft operated by air taxi operators who hold authority to operate aircraft over 12,500 pounds, turbojet aircraft under blanket authority, or aircraft operated by air travel clubs.

Beginning in 1979 data also includes large aircraft operated by air taxis, air travel clubs, and all cargo air service operators, and multi-engine aircraft in passenger operations of commuters.

TABLE 5.2

TOTAL AIRCRAFT IN OPERATION BY THE U.S. AIR CARRIER FLEET BY TYPE OF CARRIER AND BY TYPE OF AIRCRAFT: DECEMBER 1979 and 1980

Type of Aircraft	All Air Carriers		Certified Route Air Carriers		Supplemental Air Carriers		Commercial Operators		Air Taxi Operators		Commuter Operators		All Cargo Operators		Air Travel Clubs	
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1978
Total Aircraft	3,609	3,805	2,466	2,505	70	148	118	24	352	135	495	835	93	146	15	12
Fixed wing--total	3,608	3,803	2,466	2,505	70	148	118	24	351	133	495	835	93	146	15	12
Turbine-powered--total	3,053	3,208	2,460	2,499	63	132	71	15	192	66	178	384	74	100	15	12
Turbojet--total	2,486	2,526	2,308	2,336	39	59	15	8	52	29	---	9	60	76	12	9
4-engine	511	436	455	373	26	40	14	8	2	---	---	4	8	7	6	4
3-engine	1,256	1,347	1,232	1,311	9	12	---	---	---	---	---	---	15	24	---	---
2-engine	719	743	621	652	4	7	1	---	50	29	---	5	37	45	6	5
Turboprop--total	566	682	152	163	24	73	56	7	140	37	177	375	14	24	3	3
4-engine	80	92	9	13	23	55	31	4	---	---	5	8	9	9	3	3
2-engine	486	590	143	150	1	18	25	3	140	37	172	367	5	15	---	---
1-engine	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Piston-powered--total	556	595	6	6	7	16	47	9	159	67	318	451	19	46	---	---
4-engine	59	73	4	6	3	16	39	3	6	4	4	24	3	20	---	---
3-engine	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---
2-engine	496	522	2	---	4	---	8	6	153	63	313	427	16	26	---	---
1-engine	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rotory-wing--total	1	2	---	---	---	---	---	---	1	2	---	---	---	---	---	---
Turbine-powered	1	2	---	---	---	---	---	---	1	2	---	---	---	---	---	---

TABLE 5.3

COMPOSITION OF U.S. AIR CARRIER FLEET BY MANUFACTURER AND MODEL: 1979 and 1980

Type of Aircraft Number of Engines and Model	1980	1979	Type of Aircraft Number of Engines and Model	1980	1979
Total Aircraft	3,805	3,609	Hamburger-Flugzenbau HFB320	---	4
			Israel Aircraft 1123	---	1
Fixed-wing--total	3,803	3,608	Israel Aircraft 1124	1	1
			Learjet LR23	2	5
Turbine-powered--total	3,208	3,052	Learjet LR24	3	3
			Learjet LR25	7	6
4-engine--total	528	591	Learjet LR35	3	4
			Rockwell		
Turbojet--total	436	511	International NA265	2	2
Boeing B707	146	175	Sud Aviation SE210	5	6
Boeing B720	3	7	Sud Aviation SN601	3	---
Boeing B747	144	131			
Convair CV22	1	---	Turboprop--total	590	486
Douglas DC8	142	188	Beech BE90	2	3
Lockheed L1329	---	1	Beech BE99	87	5
SN Concorde	---	9	Beech BE200	1	4
			Cessna C212	2	---
Turboprop--total	92	80	Cessna C441	1	---
Lockheed L188	52	52	ConvairCV340/440	3	---
Lockheed L382	20	20	Convair CV580/640	99	105
Canadair CL44	2	---	Convair CV600	17	15
DeHavilland DHC 7	18	8	DeHavilland DHC6	107	78
			DeHavilland DHC104	---	2
3-engine--total	1,347	1,256	Embraer EM110	34	4
			Fairchild F27	6	3
Turbojet--total	1,347	1,256	Fairchild FH227	8	22
Boeing B727	1,092	1,029	Fokker F27	4	---
Douglas DC10	153	140	GAF Nomad N22	9	---
Lockheed L1011	102	87	Grumman G159	16	15
			Handley-Page HP137	15	13
2-engine--total	1,333	1,205	Handley-Page SAHP137	---	3
			Hawker-Siddeley HS748	2	1
Turbojet--total	743	719	Nihon YS11	22	18
Airbus A300	19	12	Nomad N24	---	1
Boeing B737	220	206	Nord ND262	18	20
British Aircraft BA111	27	28	Nord STC262	4	4
Convair CV30	5	6	Short SC7	2	---
Dassault MD20	42	44	Short SD330	---	21
Douglas DC9	394	381	Short SD3	34	---
Fokker F28	5	---	Swearingen SA26	---	1
Grumman G1159	5	6	Swearingen SA226	100	65

TABLE 5.3 (Continued)

COMPOSITION OF U.S. AIR CARRIER FLEET BY MANUFACTURER AND MODEL: 1979 and 1980

Type of Aircraft Number of Engines and Model	1980	1979	Type of Aircraft Number of Engines and Model	1980	1979
Piston-powered--total	595	556	Cessna C421	1	---
			Cessna C500	5	4
4-engine--total	73	59	Cessna C404	20	17
Douglas DC4	5	4	Cessna C411	1	1
Douglas DC6	41	46	Cessna C414	1	2
Lockheed L1049	---	1	Convair CV240	4	3
Canadair C44	---	1	Convair CV 340/440	23	22
DeHavilland DHC114	27	7	Curtiss-Wright C46	13	12
			DeHavilland DHC4	1	1
2-engine--total	522	497	Dornier DO28	1	1
Aero Commander AC500	3	1	Douglas DC3	68	90
Aero Commander AC680	3	2	Fairchild C82	2	2
Beech BE18	13	26	Grumman G21	6	1
Beech BE55	2	3	Grumman G73	4	---
Beech BE58	3	---	Martin M404	14	20
Beech BE65	1	2	Piper PA23	26	20
Beech BE80	2	1	Piper PA30	2	2
Beech BE95	1	1	Piper PA31	126	122
Beech STC-18	5	---	Piper PA34	12	10
Britten-Norman BN2A	31	11	Piper PA44	1	1
Britten-Norman BN28	---	1	Piper PA600	1	4
Cessna C310	7	11			
Cessna C337	---	2	Rotary-wing--total	2	1
Cessna C340	2	2			
Cessna C401	2	---	Turbine-powered--total	2	1
Cessna C402	115	93	Kawasaki KV107	2	1

TABLE 5.4

TOTAL FLIGHT TIME BY TYPE OF AIRCRAFT IN THE U.S. AIR CARRIER FLEET: 1979 and 1980

Type of Aircraft Number of Engines and Model	Hours 1979	Hours 1980	Type of Aircraft Number of Engines and Model	Hours 1979	Hours 1980
Total Aircraft	7,551,821	8,225,476	Hamburger-Flugzenbau HF320	2,363	1,310
Total Fixed-wing	7,549,598	8,225,106	Israel Aircraft IL1123	318	39
			Israel Aircraft IL1124	155	209
Turbine-powered--total	7,325,224	7,740,667	Learjet LR23	631	1,658
			Learjet LR24	1,173	1,160
4-engine--total	1,649,600	1,380,627	Learjet LR25	3,905	4,041
			Learjet LR35	4,031	1,700
Turbojet--total	1,503,771	1,221,940	Learjet LR36	63	---
Boeing B707	539,189	359,112	Rockwell International NA265	1,179	589
Boeing B720	18,310	1,124	Sud Aviation SE210	4,959	5,966
Boeing B747	482,550	529,314	Sud Aviation SN 601	---	1,600
Convair CV22	91	71			
Douglas DC8	462,053	331,417			
Lockheed L1329	589	487			
SN Concorde	989	415	Turboprop--total	512,096	949,448
			Beech BE200	2,100	886
Turboprop--total	145,829	158,687	Beech BE90	459	537
Canadair CL44	---	2,155	Beech BE99	45,309	171,475
DeHavilland DHC7	8,905	31,472	Beech BE 100	---	255
Lockheed L188	81,280	69,217	Cessna C212	675	637
Lockheed L382	55,644	55,843	Cessna C441	---	107
			Convair CV580	140,759	137,907
3-engine--total	3,519,847	3,693,218	Convair CV600	16,348	20,529
Turbojet--total	3,519,847	3,693,218	Convair CV640	12,744	11,450
Boeing B727	2,870,352	2,949,274	DeHavilland DHC6	59,679	167,282
Douglas DC10	377,434	441,576	DeHavilland DHC104	130	1,268
Lockheed L1011	272,061	302,368	Embraer EMB110	614	36,468
			Fairchild F27	5,177	3,441
2-engine--total	2,155,777	2,666,822	FairchildF227	31,926	17,134
			Fokker F27	---	5,196
Turbojet--total	1,643,681	1,717,374	GAF Nomad N22	---	5,546
Airbus A300	23,843	43,703	Grumman G159	12,294	14,273
Boeing B737	470,075	522,556	Hawker-Siddeley HS748	2,087	2,564
British Aircraft BA111	75,807	65,194	Handley-Page HP137	6,179	25,982
Cessna C500	680	3,773	Handley-Page SAHP137	2,962	---
Convair CV30	2,092	1,437	Nihon YS11	43,798	37,280
Dassault MD20	47,796	33,823	Nomad N24	51	---
DeHavilland DH125	198	---	Nord ND262	41,134	35,724
Douglas DC9	1,001,148	1,023,200	Nord STC262	9,510	9,133
Fokker F28	---	2,642	Short SC7	---	489
Grumman G1159	3,265	2,774	Short SD330	27,671	---
			Short SD3	---	66,606

TABLE 5.4 (Continued)

TOTAL FLIGHT TIME BY TYPE OF AIRCRAFT IN THE U.S. AIR CARRIER FLEET: 1979 and 1980

Type of Aircraft Number of Engines and Model	Hours 1979	Hours 1980
Swearingen SA226	50,436	177,240
Swearingen SWSA26	54	39
Piston-Powered--Total	224,374	484,439
4-engine--total	45,472	70,295
Canadair C44	465	---
DeHavilland DHC114	---	39,110
Douglas DC4	5,934	3,150
Douglas DC6	31,006	28,035
Lockheed L1049	8,067	---
2-engine-total	178,548	415,670
Aero Commander AC680	166	892
Aero Commander AC500	104	1,503
Beech BE18	3,222	7,521
Beech BE55	416	961
Beech BE58	99	827
Beech BE65	286	1,160
Beech BE76	---	123
Beech BE80	455	3,002
Beech BE95	32	57
Beech STC18	---	2,769
Boeing B95	---	48
Britten-Norman BN2A	2,380	21,239
Britten-Norman BN28	100	1,407
Cessna C310	1,157	2,857
Cessna C337	38	129
Cessna C340	244	499
Cessna C401	165	630
Cessna C402	23,818	120,892
Cessna C404	2,877	22,260
Cessna C411	51	470
Cessna C414	94	655
Cessna C421	---	573
Cessna C500	680	3,773
Convair CV240	2,067	3,633
Convair CV340/440	16,784	13,744
Curtiss-Wright CW46	8,708	4,673
DeHavilland DHC4	529	91
DeHavilland DHC104	109	1,268
Dornier DO28	16	400
Douglas DC8	69,964	32,749
Fairchild C82	1,957	2,127
Grumman G21	154	3,474
Grumman G44	---	---
Grumman G73	---	3,662
Martin M404	12,659	7,604
Piper PA23	1,073	9,996
Piper PA30	22	281
Piper PA31	25,751	120,618
Piper PA34	1,157	8,569
Piper PA44	25	938
Piper PA600AS	2,223	7,596
Rotary-wing-total	2,223	370
Turbine-powered--total	2,223	370
Bell Helicopter HB205A	542	---
Bell Helicopter HB212	87	---
Kawasaki KV107	392	370
Sikorsky S61	1,202	---

* 1979 includes 6,729,921 hours for Certificated Route Air Carriers; 170,624 hours for Supplemental Carriers; 130,113 hours for Commerical Carriers; 263,559 hours for Air Taxi, and 153,725 hours for commuters; 5,007 hours for Air Travel Club and 98,868 for All Cargo Carriers.

1980 includes 6,746,818 hours for Certified Route Air Carriers; 237,829 hours for supplemental Carriers; 18,228 hours for Commercial Carriers; 92,015 hours for Air Taxi; 989,800 hours for Commuters; 4,155 hours for Air Travel Clubs and 136,631 hours for all Cargo Carriers.

TABLE 5.5

TOTAL AIRCRAFT IN CERTIFICATED ROUTE AIR CARRIER OPERATIONS
BY CARRIER AND BY ENGINE TYPE: DECEMBER 1980

Air Carrier Group and Carrier	Total all Carriers	Turbojet				Turboprop			Piston		
		Total Turbojet	4-engine	3-engine	2-engine	Total Turboprop	4-engine	2-engine	Total Piston	4-engine	2-engine
Total	2,505	2,336	373	1,311	652	163	13	150	6	6	---
Trunk Carriers--total	1,645	1,645	281	1,171	193	---	---	---	---	---	---
American	271	271	78	193	---	---	---	---	---	---	---
Braniff	110	110	17	93	---	---	---	---	---	---	---
Continental	70	70	---	70	---	---	---	---	---	---	---
Delta	217	217	19	157	41	---	---	---	---	---	---
Eastern	272	272	---	178	94	---	---	---	---	---	---
Northwest	117	117	29	88	---	---	---	---	---	---	---
Trans World	194	194	77	117	---	---	---	---	---	---	---
United	322	322	61	219	42	---	---	---	---	---	---
Western	72	72	---	56	16	---	---	---	---	---	---
Local Service Carriers--total	642	482	---	53	429	157	10	147	3	3	---
Air California	16	16	---	---	16	---	---	---	---	---	---
Air Florida	26	26	---	1	25	---	---	---	---	---	---
Air Illinois	8	---	---	---	---	8	---	8	---	---	---
Air Midwest, Inc	15	---	---	---	---	15	---	15	---	---	---
Air New England	16	---	---	---	---	16	---	16	---	---	---
Air Wisconsin	18	---	---	---	---	18	5	13	---	---	---
Altair	14	3	---	---	3	11	---	11	---	---	---
Aspen	10	---	---	---	---	10	---	10	---	---	---
Frontier	62	42	---	---	42	20	---	20	---	---	---
Golden Gate	21	---	---	---	---	21	5	16	---	---	---
Midway	8	8	---	---	8	---	---	---	---	---	---
Ozark	39	39	---	---	39	---	---	---	---	---	---
Pacific Southwest	24	24	---	23	1	---	---	---	---	---	---
Piedmont	48	42	---	6	36	6	---	6	---	---	---
Republic	153	133	---	10	123	20	---	20	---	---	---
Royal American	1	---	---	---	---	1	---	1	---	---	---
Southwest	23	23	---	---	23	---	---	---	---	---	---
Swift Aire	10	---	---	---	---	7	---	7	3	3	---
Texas International	33	33	---	---	33	---	---	---	---	---	---
U.S. Air, Inc.	93	93	---	13	80	---	---	---	---	---	---
Wright	4	---	---	---	---	4	---	4	---	---	---
Alaska-Hawaii Carriers--total	33	27	---	---	27	6	3	3	---	---	---
Aloha	8	8	---	---	8	---	---	---	---	---	---
Hawaiian	9	9	---	---	9	---	---	---	---	---	---
Reeve Aleutian	6	---	---	---	---	6	3	3	---	---	---
Wien Air Alaska	10	10	---	---	10	---	---	---	---	---	---
International and Territorial Passenger/ Cargo--total	135	135	48	87	---	---	---	---	---	---	---
Alaska	10	10	---	10	---	---	---	---	---	---	---
Pan Am World	125	125	48	77	---	---	---	---	---	---	---
Scheduled Air Cargo Carriers--total	50	47	44	---	3	---	---	---	3	3	---
Airlift International	8	8	8	---	---	---	---	---	---	---	---
Flying Tiger Line	36	36	36	---	---	---	---	---	---	---	---
Jetway Inc.	6	3	---	---	3	---	---	---	3	3	---

TABLE 5.6

AIRCRAFT IN OPERATION BY CERTIFICATED ROUTE AIR CARRIERS, BY MANUFACTURER AND MODEL
DECEMBER 31, 1971 through 1980*

Aircraft Make and Model	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Total	2,389	2,361	2,361	2,244	2,267	2,271	2,234	2,348	2,466	2,505
Turbojet--4-engine--total	847	768	712	594	561	533	500	465	455	373
Boeing 707	359	337	315	281	264	240	244	198	170	135
Boeing 720	106	56	44	30	23	18	15	10	2	---
Boeing 747	104	105	109	108	97	104	107	115	130	141
Concorde	---	---	---	---	---	---	---	---	9	---
Convair 880	41	41	37	---	---	---	---	---	---	---
Douglas DC8	236	227	207	180	177	171	154	142	144	97
Lockheed L1329	1	1	---	---	---	---	---	---	---	---
Turbojet--3-engine--total	651	738	844	893	961	992	1,035	1,140	1,232	1,311
Boeing 727	638	662	710	724	765	793	836	931	1,014	1,070
Douglas DC10	13	59	86	103	121	122	122	127	131	139
Lockheed L1011	---	17	48	66	76	77	77	82	87	102
Turbojet--2-engine--total	530	522	500	501	500	518	529	579	621	652
Airbus A300	---	---	---	---	---	---	2	6	12	19
BAC111	58	58	31	36	30	31	31	30	28	27
Boeing 737	133	134	134	136	133	138	141	173	201	214
Dassault MD20	5	1	---	---	---	---	---	---	---	---
Douglas DC9	334	329	335	329	337	349	355	370	376	306
Fokker F28	3	---	---	---	---	---	---	---	---	3
Learjet LR 23	---	---	---	---	---	---	---	---	2	2
Learjet LR24	---	---	---	---	---	---	---	---	1	1
Learjet LR25	---	---	---	---	---	---	---	---	1	---
Turboprop--4-engine--total	28	22	20	17	16	21	6	9	9	13
DeHavilland DHC7	---	---	---	---	---	---	---	---	3	10
Lockheed L188	24	19	19	17	16	21	6	9	6	3
Lockheed L382	4	3	1	---	---	---	---	---	---	---
Turboprop--2-engine--total	258	234	218	184	177	159	150	146	143	150
Beech BE99	5	1	---	---	3	3	---	---	---	5
Convair CV580/640	115	110	105	89	69	69	68	60	59	55
Convair 600	22	25	24	16	19	12	8	8	4	5
DeHavilland DHC6	8	13	9	8	21	18	14	13	16	14
Fairchild FH227	48	32	31	33	29	27	22	23	21	6
Fairchild FH27	34	29	24	15	10	7	4	5	1	3
Hawker-Siddeley HS7	---	---	---	---	---	---	---	---	---	2
Handley Page HP 137	---	---	---	---	---	---	---	---	---	2
Nihon YS11	21	22	23	21	23	23	23	19	12	9
Nord ND262	---	---	---	---	---	---	5	9	---	10
Pilatus PC6A, 6B	3	---	---	---	---	---	---	---	---	---
Short SC7	2	2	2	2	3	---	---	---	---	---
Short SHD330	---	---	---	---	---	---	---	1	1	---
Swearingen SA226	---	---	---	---	---	---	6	8	29	39
Piston--4-engine--total	4	3	3	1	1	2	---	---	4	6
Canadair CL44	1	---	---	---	---	---	---	---	---	---
Douglas DC6, 6A, 6B	3	3	3	1	1	2	---	---	4	3
DeHavilland DH114	---	---	---	---	---	---	---	---	---	3
Piston--2-engine--total	46	47	36	32	37	31	11	4	2	---
Piston--1-engine--total	11	13	15	12	7	10	---	2	---	---
Helicopters--total	14	14	13	10	7	5	3	3	---	---

*Aircraft not used in air carrier operations, such as those used for crew training and general utility purposes and aircraft held for disposal are excluded.

TABLE 5.7

AIRCRAFT IN OPERATION BY SUPPLEMENTAL CARRIERS, BY CARRIER, AND BY ENGINE TYPE: DECEMBER 31, 1980

Name of Carrier	Total Aircraft	Turbojet				Turboprop			Piston		
		Total Turbojet	4-engine	3-engine	2-engine	Total Turboprop	4-engine	2-engine	Total Piston	4-engine	2-engine
Total	148	59	40	12	7	73	55	18	16	16	—
Air Berlin, USA	5	5	4	—	1	—	—	—	—	—	—
Alaska Int'l Air Inc.	5	—	—	—	—	5	5	—	—	—	—
American Eagle Airline	2	2	2	—	—	—	—	—	—	—	—
Capitol International Airways	8	8	8	—	—	—	—	—	—	—	—
Check Air	2	—	—	—	—	2	—	2	—	—	—
Evergreen International Airlines	16	10	5	—	5	6	6	—	—	—	—
Great American Airways	1	1	—	—	1	—	—	—	—	—	—
Rich International Airways	7	1	1	—	—	2	—	2	4	4	—
San Diego Padre Air Travel	1	1	—	1	—	—	—	—	—	—	—
Trans America Airlines	34	14	11	3	—	20	20	—	—	—	—
World Airways	9	9	1	8	—	—	—	—	—	—	—
Zantop Int'l Airlines	58	8	8	—	—	38	24	14	12	12	—

TABLE 5.8

AIRCRAFT IN OPERATION BY SUPPLEMENTAL CARRIERS,
BY MANUFACTURER AND MODEL:
DECEMBER 1979 - 1980

Aircraft Make and Model	1979	1980
Total	70	148
Turbojet--total	39	59
4-engine	26	40
Boeing B707	—	6
Boeing B747	1	3
Douglas DC8	25	31
3-engine	9	12
Boeing B727	—	1
Douglas DC10	9	11
2-engine	4	7
Boeing B737	4	5
Douglas DC9	—	1
Learjet LR24	—	1
Turboprop--total	24	73
4-engine	23	55
Lockheed L188	11	38
Lockheed L382	12	17
2-engine	1	18
Beech STC18	2	2
Convair CV640	14	14
Curtis Wright C46	—	2
Fairchild FH227	1	—
Piston--total	7	16
4-engine	3	16
Douglas DC6	3	16
2-engine	4	—
Convair CV240	2	—
Curtiss Wright CW46	2	—

TABLE 5.9

AIRCRAFT IN OPERATION BY COMMERCIAL OPERATORS, BY CARRIER,
AND BY ENGINE TYPE: DECEMBER 1980
(Large Aircraft Only)

Name of Carrier	Total Aircraft	Turbojet			Turboprop			Piston		
		Total Turbojet	4-engine	2-engine	Total Turboprop	4-engine	2-engine	Total Piston	4-engine	2-engine
Total	24	8	8	—	7	4	3	9	3	6
Academy Airlines	4	—	—	—	—	—	—	4	—	4
Aero America, Inc	1	1	1	—	—	—	—	—	—	—
Air Distribution, Inc.	1	—	—	—	—	—	—	1	1	—
Air Helicopter	2	—	—	—	2	—	2	—	—	—
Air Resorts	1	—	—	—	—	—	—	1	—	1
Bluebell Aviation	1	—	—	—	1	1	—	—	—	—
Central America Internation, Inc.	1	1	1	—	—	—	—	—	—	—
Challenge Air Transport, Inc.	3	—	—	—	—	—	—	3	2	1
Fairways Corp.	1	—	—	—	1	—	1	—	—	—
Global Int. Airways Corp.	3	3	3	—	—	—	—	—	—	—
Intercontinental Airways	3	3	3	—	—	—	—	—	—	—
Southern Air Transport Inc.	3	—	—	—	3	3	—	—	—	—

TABLE 5.10

AIRCRAFT IN OPERATION BY COMMERCIAL OPERATORS, BY MANUFACTURER AND MODEL: DECEMBER 31, 1978, 1979, AND 1980

(LARGE AIRCRAFT ONLY)

Aircraft Make and Model	1978	1979	1980
Total Aircraft	123	118	24
Turbojet -- total	18	15	8
4-engine	18	14	8
Boeing B707	3	4	3
Boeing B720	4	---	1
Convair CV22	---	---	1
Douglas DC8	10	9	3
Lockheed L1329	1	1	---
2-engine	---	1	---
Boeing 737	---	---	---
Douglas DC9	---	1	---
Turboprop -- total	52	56	7
4-engine	32	31	4
Canadair CL44	---	---	1
Lockheed 1188	24	23	---
Lockheed [illegible]	8	8	3
2-engine	20	25	3
Convair CV580	2	2	2
Convair CV640	14	14	---
DeHavilland DHC6	---	2	---
Fairchild F27	2	2	---
Grumman G159	1	1	1
Handley Page HP137	---	3	---
Hawker Siddley HS748	1	1	---
Piston -- Total	53	47	9
4-engine	39	39	3
Canadair, Ltd. C44-D4	---	1	---
Douglas 4	36	1	1
Douglas 6	---	36	2
Douglas 7	1	---	---
Lockheed 1049	2	1	---
2-engine	14	8	6
Convair CV440	---	---	---
Curtiss-Wright C46	5	4	1
Dehavilland DHC4	2	---	---
Fairchild C82	2	2	---
Martin M404	3	---	---
Douglas 3	2	2	5

TABLE 5.11

TOTAL AIRCRAFT IN OPERATION BY COMMUTER AIR TAXI OPERATORS, BY BY CARRIER, AND BY ENGINE TYPE: DECEMBER 1980
(MULTI-ENGINE AIRCRAFT IN PASSENGER OPERATIONS ONLY)

Name of Carrier	Total All Aircraft	Turbojet		Turboprop		Piston	
		4-Engine	2-Engine	4-Engine	2-Engine	4-Engine	2-Engine
Total	835	4	5	8	367	24	427
Aerc Mech, Inc.	10	---	---	---	10	---	---
Air Rahai	6	---	---	---	---	---	6
Air Chico	2	---	---	---	---	---	2
Air Hawaii	5	---	---	---	---	---	5
Air Hawaii Corp.	3	---	---	---	---	---	3
Airlift Associates	2	---	---	---	---	---	2
Air Maimi, Inc.	9	---	---	---	---	1	8
Air Nebraska, Inc.	2	---	---	---	1	---	1
Air Nevada Airlines	9	---	---	---	1	---	8
Air North	6	---	---	---	---	---	6
Air North, Inc.	7	---	---	---	7	---	---
Air Oregon	10	---	---	---	6	---	4
Air U.S.	4	---	---	---	3	---	1
Air Vetors Airways, Inc.	4	---	---	---	---	---	4
Air Virginia	4	---	---	---	4	---	---
Akland Helicopters	1	---	---	---	---	---	1
Alaska Aero Ind., Inc.	5	---	---	---	5	---	---
Alaska Central Airways, Inc.	1	---	---	---	1	---	---
Antilles Air Boats, Inc.	6	---	---	---	---	---	6
Arctic Circle Air Svc., Inc.	2	---	---	---	1	---	1
Atlantic Airlines, Inc.	9	---	---	---	3	---	6
Atlantic Southeast	2	---	---	---	2	---	---
Bankair, Inc.	3	---	---	---	---	---	3
Bard Air Corporation	2	---	---	---	---	---	2
Bar Harbour Airlines	14	---	---	---	14	---	---
Big Sky Airlines	7	---	---	---	4	---	3
Brennan & Hargraves	2	---	---	---	---	---	2
Britt Airlines	11	---	---	---	11	---	---
Britt Airways	2	---	---	---	2	---	---
Cape Smythe Air Service	3	---	---	---	3	---	---
Capitol Air Service	6	---	---	---	1	---	5
Cascade Airways, Inc.	15	---	---	---	15	---	---
Catskill Airways	3	---	---	---	---	---	3
Century Airlines	6	---	---	---	2	---	4
Channel Flying, Inc.	3	---	---	---	---	---	3
Chaparral Airlines	7	---	---	---	4	---	3
Chautauqua Airlines	6	---	---	---	6	---	---
Cochise Airlines, Inc.	8	---	---	---	3	---	5
Command Airways, Inc.	5	---	---	---	5	---	---
Commuter Airlines	16	---	---	---	8	---	8
Coral Air, Inc.	4	---	---	---	3	---	1
Cumberland Airlines	7	---	---	---	1	---	6
Danberry Airways, Inc.	5	---	---	---	1	---	4
Desert Pacific	1	---	---	---	---	---	1
Dorado Wings, Inc.	16	---	---	---	3	---	13

TABLE 5.11 (CONTINUED)

TOTAL AIRCRAFT IN OPERATION BY COMMUTER AIR TAXI OPERATORS, BY
BY CARRIER, AND BY ENGINE TYPE: DECEMBER 1980
(MULTI-ENGINE AIRCRAFT IN PASSENGER OPERATIONS ONLY)

NAME OF CARRIER	TOTAL ALL AIRCRAFT	TURBOJET		TURBOPROP		PISTON	
		4-ENGINE	2-ENGINE	4-ENGINE	2-ENGINE	4-ENGINE	2-ENGINE
EAGLE AIRLINES	2	---	---	---	---	---	2
EMERALD AIRLINES	1	---	---	---	1	---	---
EMMETT COUNTY AVIATION	1	---	---	---	---	---	1
EMPIRE AIRLINES	10	---	2	---	5	---	3
EVERGREEN HELICOPTER	7	---	---	---	7	---	---
FISCHER BROS. AVIATION	4	---	---	---	2	2	---
FLAMENCO AIRWAYS	3	---	---	---	---	---	3
FLORIDA COMMUTER AIRLINES	2	---	---	---	---	---	2
FRONTIER FLYING SERVICE	3	---	---	---	---	---	3
GO FLYING, INC	2	---	---	---	---	---	2
GOLDEN WEST AIRLINES	16	---	---	1	15	---	---
GREAT SIERRA AIRLINES	4	---	---	---	---	---	4
GREAT WESTERN AIRLINES	2	---	---	---	2	---	---
GREEN HILLS AVIATION	2	---	---	---	---	---	2
GULF AIR TRANSPORT	5	---	---	---	2	---	3
GULL AIR, INC.	5	---	---	---	---	---	5
HENSON AVIATION	10	---	---	1	9	---	---
HEUSSLER AIR SERVICE CORP.	1	---	---	---	---	---	1
HOLIDAY AIRLINES	1	---	---	---	---	---	1
HYANNIS AVIATION	1	---	---	---	---	---	1
IMPERIAL COMMUTER AIRLINES	8	---	---	---	5	---	3
INLAND EMPIRE AIRLINES	7	---	---	---	4	---	3
ISLAND AVIATION, INC.	2	---	---	---	2	---	---
JAMAIRE, INC.	6	---	---	---	---	---	6
KODIAK WESTERN ALASKA	1	---	---	---	1	---	---
L.A.B. FLYING SERVICE	3	---	---	---	---	---	3
LAS VEGAS AIRLINES	11	---	---	---	---	---	11
MALL AIRWAYS	5	---	---	---	1	---	4
MESABA AVIATION	1	---	---	---	1	---	---
METRO AIRLINES	21	---	---	---	21	---	---
METROPLEX AIRLINES	2	---	---	---	---	---	2
MICHIGAN PENINSULA AIRWAYS	2	2	---	---	---	---	---
MID CONTINENT	2	---	---	---	---	---	2
MIDSTATE AIRLINES	4	---	---	---	4	---	---
MID SOUTH AIRLINES, INC.	2	---	---	---	2	---	---
MISSISSIPPI VALLEY	12	---	---	---	12	---	---
MONTAUK CARIBBEAN AIRWAYS	3	---	---	---	1	---	2
MOUNTAIN HOME AIR SERVICE	1	---	---	---	---	---	1
MOUNTAIN WEST AIRLINES	3	---	---	---	2	---	1
MUNZ NORTHERN AIRLINES, INC	9	---	---	---	---	---	9
NEW ENGLAND AIRLINES, INC.	2	---	---	---	---	---	2
NEW HAVEN AIRWAYS	6	---	---	---	2	---	4
NEW YORK AIRLINES	3	---	3	---	---	---	---
NOREAST COMMUTER AIRLINES	2	---	---	---	---	---	2
PENINSULA AIRWAYS, INC.	2	---	---	---	---	---	2
PHILLIPS AIRLINES	6	---	---	---	---	---	6
PILGRIM AIRLINES	9	---	---	---	9	---	---

TABLE 5.11 (CONTINUED)

TOTAL AIRCRAFT IN OPERATION BY COMMUTER AIR TAXI OPERATORS, BY BY CARRIER, AND BY ENGINE TYPE: DECEMBER 1980
(MULTI-ENGINE AIRCRAFT IN PASSENGER OPERATIONS ONLY)

NAME OF CARRIER	TOTAL ALL AIRCRAFT	TURBOJET		TURBOPROP		PISTON	
		4-ENGINE	2-ENGINE	4-ENGINE	2-ENGINE	4-ENGINE	2-ENGINE
PIONEER AIRWAYS	5	---	---	---	5	---	---
POCONO AIRLINES	5	---	---	---	5	---	---
PONDEROSA AVIATION & AIRLINE	1	---	---	---	---	---	1
PRECISION AIRLINES	12	---	---	---	4	---	8
PRICEVILLE AIRWAYS	2	---	---	---	2	---	---
PROVIDENCE CHARTER, INC.	3	---	---	---	---	---	3
PROVINCETOWN BOSTON AIR	36	---	---	---	3	---	33
PUERTO RICO INT'L AIRLINES	20	---	---	---	---	20	---
RANSOME AIRLINES	15	---	---	3	12	---	---
RIO AIRWAYS	20	---	---	---	20	---	---
ROCKY MOUNTAIN AIRWAYS	6	---	---	3	3	---	---
ROSS AVIATION, INC.	2	---	---	---	2	---	---
ROYALE AIRLINE, INC.	9	---	---	---	9	---	---
ROYAL HAWAIIAN AIR SERVICE	16	---	---	---	---	---	16
SCENIC AIRMOTIVE, INC.	28	---	---	---	---	---	28
SCOTTSDALE CHARTER, INC.	5	---	---	---	---	---	5
SEA AIRMOTIVE	13	---	---	---	13	---	---
SEMO AVIATION INC.	3	---	---	---	---	1	2
SILVER STATE AIRLINES, INC.	4	---	---	---	2	---	2
SIMMONS AVIATION	3	---	---	---	---	---	3
SIX RIVERS AIR SERVICE	1	---	---	---	---	---	1
SKYWAYS, INC.	12	---	---	---	10	---	2
SKY WEST AVIATION	8	---	---	---	3	---	5
SMB STAGE LINES	10	---	---	---	7	---	3
SOONAIR LINES	3	---	---	---	---	---	3
SOUTH CENTRAL AIR, INC.	3	---	---	---	---	---	3
SOUTHEAST SKYWAYS	2	---	---	---	---	---	2
SOUTHERN NEVADA AIRLINES	5	---	---	---	---	---	5
SOUTH PACIFIC ISLAND AIRWAYS	2	---	---	---	2	---	---
STAHMANN FARMS	2	---	---	---	---	---	2
SUN AIRLINES	5	---	---	---	5	---	---
SUNBIRD AIRLINES, INC.	10	---	---	---	---	---	10
SUN INTERNATIONAL AIRWAYS	4	---	---	---	---	---	---
SUNLAND AIRLINES	2	2	---	---	---	---	---
SUSQUEHANNA AIRLINES	2	---	---	---	---	---	2
TCA HOLDINGS, INC.	2	---	---	---	---	---	2
TEJAS AIRLINES	2	---	---	---	2	---	---
TENNESSEE AIRWAYS, INC.	5	---	---	---	2	---	3
TERRA HAUTE AIRLINES	2	---	---	---	---	---	2
TRANS CENTRAL AIRLINES	5	---	---	---	2	---	3
TRANS MICRONESEAN AIRWAYS	3	---	---	---	3	---	---
TRANS MISSOURI AIRLINES	2	---	---	---	---	---	2

TABLE 5.11 (CONTINUED)

TOTAL AIRCRAFT IN OPERATION BY COMMUTER AIR TAXI OPERATORS, BY BY CARRIER, AND BY ENGINE TYPE: DECEMBER 1980
(MULTI-ENGINE AIRCRAFT IN PASSENGER OPERATIONS ONLY)

NAME OF CARRIER	TOTAL ALL AIRCRAFT	TURBOJET		TURBOPROP		PISTON	
		4-ENGINE	2-ENGINE	4-ENGINE	2-ENGINE	4-ENGINE	2-ENGINE
TRANS WESTERN AIRLINES OF UTAH	6	---	---	---	---	---	6
UNALAKLEET AIR TAXI	4	---	---	---	---	---	4
VALDEZ AIRLINES	4	---	---	---	---	---	4
VIEQUES AIR LINK	3	---	---	---	---	---	3
VIRGIN AIR, INC.	6	---	---	---	---	---	6
WESTAIR	9	---	---	---	---	---	9
WESTERN CHARTER	1	---	---	---	---	---	1
WESTERN YUKON AIR	1	---	---	---	---	---	1
WHEELER AIRLINES, INC.	3	---	---	---	3	---	---
WILLS AIR	3	---	---	---	---	---	3
WINGS WEST, INC.	6	---	---	---	---	---	6
YOSEMITE AIRLINES, INC.	4	---	---	---	---	---	4
ZANTOP AIRWAYS	7	---	---	---	7	---	---

TABLE 5.12

AIRCRAFT IN OPERATION BY COMMUTER AIR TAXI OPERATORS,
BY MANUFACTURER AND MODEL: DECEMBER 1980
(MULTI-ENGINE AIRCRAFT IN PASSENGER OPERATIONS ONLY)

Aircraft Make and Model	1979	1980
Total	495	835
Turbojet--total	---	9
4-engine	---	4
Douglas DC8	---	4
2-engine	---	5
Fokker F28	---	2
Douglas DC9	---	3
Turboprop--total	177	375
4-engine	5	8
DeHavilland DH7	5	8
2-engine	172	367
Beech BE90	3	2
Beech BE99	50	82
Beech BE200	1	1
Cessna C212	---	2
Cessna C441	---	1
Canvair CV580	7	12
Canvair CV600	2	10
DeHavilland DH6	56	90
DeHavilland DH104	1	---
Embraer EM 110	4	34
Fairchild F27	---	1
Fairchild FH227	---	2
Fokker F27	---	1
GAF Nomad N22	---	9
GAF Nomad N24	1	---
Grumman G159	---	9
Handley-Page HP137	8	8
Nord ND 262	9	8
Nord STC 262	4	4
Short SD3	---	29
Short SC7	---	2
Short SD 330	7	---
Swearingen SA26	1	---
Swearingen SA226	23	61
Piston--total	318	451
4-engine	4	24
DeHavilland DH114	4	24

TABLE 5.13

TOTAL AIRCRAFT IN OPERATION BY AIR TAXI OPERATORS,
BY CARRIER, AND BY ENGINE TYPE: DECEMBER 1980
(LARGE AIRCRAFT ONLY)

Name of Carrier	Total all Aircraft	Turbojet		Turboprop	Piston		Helicopter
		4-engine	2-engine	2-engine	4-engine	2-engine	
Total	135	---	29	37	4	63	2
Aero-Dyne Corp.	4	---	---	---	---	4	---
Aero Transit	4	---	---	---	---	4	---
Aero Virgin Island	4	---	---	---	---	4	---
Air Cargo American	1	---	---	---	---	1	---
Air Vacations Inc.	1	---	---	---	---	1	---
Air Tours, Inc.	3	---	---	---	---	3	---
American Cynamid Co.	2	---	2	---	---	---	---
American Inter-Island	5	---	---	---	---	5	---
Apollo Airways, Inc.	5	---	---	5	---	---	---
Basler Flight Service	5	---	---	---	1	4	---
Carribbean Air Service	4	---	---	---	---	4	---
Century Airlines	4	---	---	---	---	4	---
Chrysler Corp.	2	---	2	---	---	---	---
Columbia Helicopters	2	---	---	---	---	---	2
Crystal Shamrock	2	---	---	---	---	2	---
DHL Cargo	4	---	---	---	3	1	---
Executive Air Fleet	6	---	6	---	---	---	---
Florida Airlines	2	---	---	---	---	2	---
Florida Airmotive	2	---	---	---	---	2	---
Global Air Enterprises	1	---	1	---	---	---	---
International Air Service	3	---	3	---	---	---	---
Interstate Airlines	9	---	---	9	---	---	---
Jet Executive International	2	---	2	---	---	---	---
Jet Fleet Corp.	1	---	1	---	---	---	---
Jimsair Aviation Service	1	---	---	---	---	1	---
Kahili Airlines and Swift	2	---	---	---	---	2	---
Key Airlines	5	---	---	---	---	5	---
Mannion Air Charter	2	---	---	---	---	2	---
Merk Norman Cosmetics Aviation	1	---	1	---	---	---	---
Orien Air Inc.	2	---	---	2	---	---	---
Pinehurst Airlines	5	---	---	5	---	---	---
Priester Aviation Service	2	---	---	2	---	---	---
Red Carpet Flying Service	3	---	---	---	---	3	---
Rhodes Aviation Inc.	1	---	---	---	---	1	---
Sierra Pacific Airlines	4	---	---	4	---	---	---
Speedbird Acft & Consolidated Airways	2	---	---	2	---	---	---
Southern Flyer	4	---	---	---	---	4	---
Stevens Beechcraft	2	---	2	---	---	---	---
Suburban Airlines Inc.	6	---	---	6	---	---	---
Thunderbird Airways	8	---	8	---	---	---	---
Trans Florida Airlines	1	---	---	---	---	1	---
Tropic Air Limited	1	---	---	---	---	1	---
Viking International	2	---	---	2	---	---	---
Vero Monmouth Airlines	2	---	---	---	---	2	---
Windstar Aviation	1	---	1	---	---	---	---

TABLE 5.14

AIRCRAFT IN OPERATION BY AIR TAXI OPERATORS BY

MANUFACTURER AND MODEL: December 1978 through 1980

(LARGE AIRCRAFT ONLY)

Aircraft Make and Model	1978	1979	1980
Total Aircraft	337	352	135
Fixed-wing--total	337	351	133
Turbojet--total	96	52	29
4-engine--total	---	--2	---
Boeing B720	---	--1	---
Boeing B707	---	--1	---
3-engine--total	9	---	---
Boeing B727	9	---	---
2-engine--total	87	50	29
Cessna C500	---	4	---
Dassault MD20	45	12	10
DeHavilland DH125	1	---	---
Douglas DC9	1	---	---
Grumman G1159	6	6	5
Hamburger/Flugzenbau HR320	6	4	---
Israel Aircraft 1123	1	1	---
Israel Aircraft 1124	1	1	1
Learjet LR23	1	3	---
Learjet LR24	---	2	1
Learjet LR25	13	5	7
Learjet LR35	8	4	3
Rockwell Int'l NA265	4	2	2
Sud Aviation SE210	---	6	---
Turboprop--total	58	140	37
4-engine--total	7	---	---
DeHavilland DHC7	1	---	---
Lockheed L188	6	---	---
2-engine--total	51	140	37
Beech B99	---	35	---
Beech B200	---	3	---
Convair CV580	12	23	11
Convair CV600	4	9	2
DeHavilland DH6	---	4	3
DeHavilland DH104	---	1	---
Fairchild FH27	---	3	---
Grumman G159	7	14	6
Handley-Page HP137	---	5	5
Nihon YS11	---	6	5
Nord ND262	20	11	---
Short SD330	4	13	---
Short SD3	4	---	5
Swearingen SA226	---	13	---
Piston--total	183	159	67
4-engine--total	5	6	4
Douglas DC4	2	---	1
Douglas DC6	2	3	3
DeHavilland DH114	---	3	---
2-engine--total	177	153	63
Beech BE18	---	---	1
Cessna C402	---	1	---
Convair CV240	2	1	1
Convair CV340/440	22	15	12
Curtiss-Wright CW46	5	6	6
DeHavilland DH4	1	1	1
Douglas DC3	130	77	38
Martin M404	16	20	3
Piper PA23	---	3	---
Piper PA31	---	10	---
Piper 600AS	---	11	1
1-engine--total	1	---	---
Cessna C210	1	---	---
Rotary Wing--total	---	1	2
Turbine--total	---	1	2
Kawasaki KV107	---	1	2

TABLE 5.15

TOTAL AIRCRAFT IN OPERATION BY ALL CARGO AIR SERVICE OPERTORS,
BY CARRIER, AND BY ENGINE TYPE: DECEMBER 1980
(LARGE AIRCRAFT ONLY)

Name of Carrier	Total all Engines	Turbojet			Turboprop		Piston	
		4-engine	3-engine	2-engine	4-engine	2-engine	4-engine	2-engine
Total	146	7	24	45	9	15	20	26
Aero Union Corp.	2	—	—	—	—	—	2	—
Airborn Express Inc.	21	—	—	8	—	8	—	5
Air Express Int'l Airlines Inc.	1	—	—	—	1	—	—	—
Airgo	1	—	—	—	—	—	—	1
Bo-S-Aire Corp.	8	—	—	—	—	—	1	7
Combs Freight air	8	—	—	—	—	—	—	8
Federal Express	61	—	24	37	—	—	—	—
Fleming Int'l Airways	9	1	—	—	8	—	—	—
Northern Air Cargo	5	—	—	—	—	—	3	2
Pacific Alaska Airlines	7	—	—	—	—	2	5	—
Rosenbalm Aviation	6	6	—	—	—	—	—	—
Summit Airlines	5	—	—	—	—	5	—	—
Trans Continential Airlines	12	—	—	—	—	—	9	3

TABLE 5.16

AIRCRAFT IN OPERATION BY ALL CARGO AIR SERVICE OPERATORS, BY MANUFACTURER AND MODEL: DECEMBER 1979-1980 (LARGE AIRCRAFT ONLY)

Aircraft Make and Model	1979	1980
Total	93	146
Turbojet--total	60	76
4-engine	8	7
Douglas DC8	8	7
3-engine	15	24
Boeing B727	15	21
Douglas DC10	---	3
2-engine	37	45
Boeing B737	5	5
Dassault MD20	32	32
Sud Aviation SE210	---	5
Sud Aviation SN601	---	3
Turboprop--total	14	24
4-engine	9	9
Lockheed L188	9	8
Canadair CL44	---	1
2-engine	5	15
Convair CV580	5	5
Ninon YS11	---	8
Fairchild F27	---	2
Piston--total	19	46
4-engine	3	20
Douglas DC4	3	3
Douglas DC6	---	17
2-engine	16	26
Beach BE18	---	2
Cessna C500	---	5
Convair CV440	7	8
Curtis Wright C46	---	3
Douglas DC 3	9	6
Fairchild C82	---	2

TABLE 5.17

AIRCRAFT IN OPERATION BY AIR TRAVEL CLUBS BY
CARRIER AND BY ENGINE TYPE:
DECEMBER 1980

Name of Carrier	Total Aircraft	Turbojet		Turboprop
		4-engine	2-engine	4-engine
Total	12	4	5	3
Atlanta Skylarks	1	1	—	—
Emerald Shillelagh Chowder and Marching Society, Inc.	1	—	—	1
Jet Set Travel Club	1	1	—	—
Nomads	2	—	1	1
Ports of Call Travel Club	7	-2	4	1

TABLE 5.18

AIRCRAFT IN OPERATION BY TRAVEL CLUBS, BY MANUFACTURER AND MODEL: DECEMBER 1979-1980 (LARGE AIRCRAFT ONLY)

Aircraft Make and Model	1979	1980
Total	15	12
Turbojet--total	12	9
4-engine	6	4
Boeing B707	--	2
Boeing R720	4	2
Douglas DC8	2	—
2-engine	6	5
Convair CV30	6	5
Turboprop--total	3	3
4-engine	3	3
Lockheed L188	3	3

VI. U.S. CIVIL CARRIER OPERATING DATA

The air carrier data contained in this chapter were obtained from the following sources published by the Bureau of Accounts and Statistics at the Civil Aeronautics Board:

Financial Data--Air Carrier Financial Statistics, published quarterly.

Traffic Data--Air Carrier Traffic Statistics, published monthly.

Supplemental Carrier Data--Air Carrier Analytic Charts and Supplemental Carrier Statistics, published quarterly.

Starting with the year 1970, data contained herein for domestic operations are compiled on a 50-states basis.

TABLE 6-1

TRAFFIC DATA, ALL (SCHEDULED AND NONSCHEDULED) SERVICES OF THE CERTIFICATED ROUTE AIR CARRIERS: 1979 AND 1980

Traffic Category	Total All Services		Total Domestic Service		Total International/ Territorial Service	
	1980	1979(R)	1980	1979(R)	1980	1979(R)
Revenue Passenger-Miles Flown (000)	260,415,949	269,719,032	203,177,154	212,701,145	57,238,795	57,017,887
Available Seat-Miles (000)	439,064,035	425,410,815	349,133,831	337,667,763	89,930,204	87,743,052
Revenue Passenger Enplanements (000)	299,746	320,595	274,823	295,238	24,923	25,357
Revenue Ton-Miles Flown (000)*	33,566,302	34,550,921	24,588,642	25,676,129	8,977,674	8,874,792
Passenger	26,041,673	26,971,038	20,317,540	21,269,242	5,724,133	5,701,796
Freight	6,123,295	6,298,997	3,264,087	3,410,831	2,859,208	2,800,091
Express	55,949	56,194	53,829	55,356	2,120	838
U.S. Mail	1,312,910	1,206,298	941,828	850,546	371,082	355,752
Foreign Mail	23,611	18,387	2,484	2,079	21,127	16,308
Revenue Aircraft-Miles Flown (000)	2,869,451	2,859,138	2,499,997	2,471,401	369,454	387,737

(R) Revised

*Details may not add to total due to rounding.

TABLE 6.2

REVENUE AIRCRAFT DEPARTURES, MILES AND HOURS FLOWN, AND AVERAGE SPEED IN ALL DOMESTIC SERVICES OF THE CERTIFICATED ROUTE AIR CARRIERS: 1971 - 1980

Year	Revenue Aircraft Departures*	Revenue Aircraft Miles Flown (000)	Revenue Aircraft Hours Flown	Average Airborne Speed (Miles per Hour)
1971	4,690,869	2,003,878	4,949,458	405
1972	4,737,343	1,999,530	4,944,515	404
1973	4,820,409	2,097,883	5,183,453	405
1974	4,449,633	1,938,041	4,820,918	402
1975	4,456,146	1,947,660	4,826,355	404
1976	4,598,152	2,051,614	5,047,504	406
1977	4,798,591	2,161,952	5,296,101	408
1978	4,874,565	2,249,102	5,449,292	413
1979	5,214,142	2,468,490	6,077,815	406
1980	5,191,932	2,499,997	6,165,345	405

* Revenue Aircraft Departures figures prior to 1977 do not incude nonscheduled services.

TABLE 6.3

REVENUE AIRCRAFT DEPARTURES, MILES AND HOURS FLOWN, AND AVERAGE SPEED IN ALL INTERNATIONAL/TERRITORIAL SERVICE OF THE CERTIFICATED ROUTE AIR CARRIERS: 1971 - 1980

Year	Revenue Aircraft Departures*	Revenue Aircraft Miles Flown (000)	Revenue Aircraft Hours Flown	Average Airborne Speed (Miles per Hour)
1971	308,065	373,980	776,467	482
1972	309,095	376,346	783,581	480
1973	314,168	457,840	947,824	483
1974	276,468	412,830	856,782	482
1975	248,564	377,033	781,003	483
1976	236,067	368,070	762,131	484
1977	323,205	363,088	745,575	487
1978	301,802	359,260	735,334	489
1979	251,708	387,465	787,748	492
1980	237,118	369,454	747,033	495

* Revenue Aircraft Departures figures prior to 1977 do not incude non-scheduled service.

TABLE 6.4
TOTAL TON-MILES AVAILABLE IN ALL SERVICES OF THE
UNITED STATES AIR CARRIERS: 1971 - 1980
(THOUSANDS OF TON-MILES)

YEAR	TOTAL AVAILABLE TON-MILES	CERTIFICATED ROUTE AIR CARRIERS			SUPPLEMENTAL AIR CARRIERS
		TOTAL	DOMESTIC SERVICES	INTERNATIONAL/ TERRITORIAL SERVICES	
1971	49,584,516	47,255,550	33,994,418	13,261,132	2,328,966
1972	50,867,516	48,680,473	34,877,554	13,802,919	2,187,043
1973	53,966,736	51,443,758	37,371,558	14,072,200	2,522,978
1974	51,153,441	48,941,526	35,565,908	13,375,618	2,211,915
1975	51,215,945	49,288,695	36,511,214	12,777,481	1,927,250
1976	53,521,569	51,708,842	38,819,097	12,889,745	1,812,727
1977	56,775,493	54,789,077	41,412,289	13,376,788	1,986,416
1978	58,907,436	56,869,894	43,557,208	13,312,686	2,037,542
1979(R)	64,359,580	62,545,477	47,339,854	15,205,593	1,814,103
1980	66,136,708	64,390,203	48,742,638	15,647,565	1,746,505

(R)REVISED.

TABLE 6.5

REVENUE TON-MILES FLOWN IN ALL SERVICES BY CERTIFICATED ROUTE
AIR CARRIERS OF THE UNITED STATES: 1971 - 1980
(THOUSANDS OF TONS)

YEAR	CERTIFICATED ROUTE AIR CARRIERS		
	TOTAL*	DOMESTIC OPERATIONS	INTERNATIONAL AND TERRITORIAL OPERATIONS
1971	20,905,968	14,141,786	6,764,182
1972	22,805,371	15,584,558	7,220,813
1973	23,927,657	16,707,015	7,220,642
1974	23,900,208	16,999,202	6,901,006
1975	23,533,743	17,069,474	6,464,269
1976	25,709,152	18,801,891	6,907,261
1977	27,582,374	20,268,464	7,313,910
1978	31,095,184	23,151,995	7,943,189
1979(R)	34,550,392	25,676,130	8,874,792
1980	33,566,303	24,588,632	8,977,671

*CATEGORIES MAY NOT ADD TO TOTAL DUE TO ROUNDING.

(R)REVISED.

TABLE 6.6

PASSENGER OPERATIONS IN SCHEDULED DOMESTIC SERVICE OF CERTIFICATED ROUTE AIR CARRIERS: 1971 - 1980

Year	Revenue Passenger Enplanements (000)	Revenue Passenger Miles (000)	Available Seat-Miles (000)	Revenue Passenger Load Factor*	Average On-Line Passenger Trip-Length (Miles)	Average Passenger Revenue Per Passenger-Miles (Cents)
1971	156,195	106,438,408	221,503,165	48.1	681	6.33
1972	172,452	118,137,978	226,614,145	52.1	685	6.40
1973	183,272	126,317,334	244,699,119	51.6	689	6.63
1974	189,733	129,732,395	233,880,101	55.5	684	7.52
1975	188,746	131,728,492	241,282,125	54.6	698	7.69
1976	206,279	143,271,283	261,247,796	54.8	704	8.16
1977	222,283	156,609,249	280,618,915	55.8	704	8.61
1978	253,957	182,669,238	299,541,841	61.0	719	8.49
1979	292,700(R)	208,890,884(R)	332,796,130(R)	62.8	714	8.93
1980	272,771	200,086,577	345,035,885	58.0	734	11.36

(R)Revised

*Percent revenue passenger-miles of available seat-miles.

TABLE 6.7

PASSENGER OPERATIONS IN SCHEDULED INTERNATIONAL AND TERRITORIAL SERVICE OF THE CERTIFICATED ROUTE AIR CARRIERS: 1971 - 1980

Year	Revenue Passenger Enplanements (000)	Revenue Passenger Miles (000)	Available Seat-Miles (000)	Revenue Passenger Load Factor (Percent)*	Average On-Line Passenger Trip-Length (Miles)	Average Passenger Revenue Per Passenger-Miles (Cents)
1971	17,474	29,219,294	58,320,186	50.1	1,672	5.98
1972	18,897	34,268,298	60,797,069	56.4	1,813	4.98
1973	18,936	35,639,973	65,897,988	54.1	1,882	5.32
1974	17,725	33,186,199	63,125,961	52.6	1,872	6.39
1975	16,316	31,081,668	61,724,118	50.4	1,905	7.17
1976	17,039	33,716,743	61,573,853	54.8	1,979	7.15
1977	18,043	36,609,570	64,946,986	56.4	2,029	7.61
1978	20,759	44,111,944	69,208,878	63.7	2,125	7.49
1979	24,163(R)	53,132,491(R)	83,330,299(R)	63.8	2,199	7.66
1980	23,978	54,093,567	86,130,554	62.8	2,256	8.87

(R)Revised

*Percent revenue passenger-miles of available seat-miles.

TABLE 6.8

REVENUE AIRCRAFT-MILES FLOWN IN ALL SERVICES OF CERTIFICATED ROUTE AIR CARRIERS: 1971 - 1980
(THOUSANDS OF TONS)

YEAR	TOTAL*	DOMESTIC OPERATIONS	INTERNATIONAL/ TERRITORIAL OPERATIONS
1971	2,377,858	2,003,878	373,980
1972	2,375,878	1,999,530	376,346
1973	2,448,113	2,057,745	390,369
1974	2,258,188	1,900,584	357,604
1975	2,240,506	1,909,486	331,020
1976	2,319,967	2,001,357	318,610
1977	2,418,645	2,103,798	314,847
1978	2,608,362	2,249,102	359,260
1979(R)	2,859,138	2,471,401	387,737
1980	2,869,451	2,499,997	369,454

* DETAILS MAY NOT ADD TO TOTAL DUE TO ROUDING.
(R) REVISED

TABLE 6.9

U.S. SUPPLEMENTAL AIR CARRIER OPERATIONS: 1977 - 1980

ITEM	1977	1978	*1979(R)	1980
REVENUE AIRCRAFT MILES (000)	62,774	69,946	63,088	56,783
COMMERCIAL	38,306	46,355	42,721	33,022
MILITARY	24,468	23,591	20,367	23,761
REVENUE PASSENGER ORIGINATIONS (000)	2,192	2,951	2,591	1,718
REVENUE PASSENGER MILES (000)	8,199,053	9,999,037	8,956,918	7,235,410
COMMERCIAL	6,647,466	8,297,453	6,912,819	4,878,393
MILITARY	1,551,587	1,701,584	2,044,099	2,357,017
AVAILABLE SEAT-MILES (000)	9,264,160	11,347,569	10,363,568	9,834,132
REVENUE CARGO TON-MILES (000)	384,133	372,650	332,119	341,425
COMMERCIAL	159,242	163,516	184,161	155,728
MILITARY	224,891	209,134	147,958	185,643
AVAILABLE TON-MILES	1,812,727	2,037,542	1,814,103	1,746,505
OPERATING REVENUE ($000)	417,480	529,654	561,913	787,765
TRANSPORT	398,656	506,388	538,271	770,692
CONTRACT AND CHARTER				
COMMERCIAL	291,181	380,155	366,378	376,502
MILITARY	107,237	123,437	135,934	225,491
OTHER	239	2,796	35,959	140,113
OTHER THAN TRANSPORT	18,827	23,262	23,639	17,070
OPERATING EXPENSES ($000)	418,086	512,465	559,735	779,145
OPERATING PROFIT OR LOSS ($000)	(-599)	17,195	2,175	8,619
NUMBER OF OPERATORS	7	8	7	14

(R)REVISED.

*SCHEDULED OPERATIONS BEGAN MAY 1, 1979

TABLE 6-10

OPERATING REVENUE OF DOMESTIC PASSENGER/CARGO OPERATORS,
CERTIFICATED ROUTE AIR CARRIERS: 1971 - 1980
(THOUSANDS OF DOLLARS)

YEAR	TOTAL OPERATING REVENUES*		PASSENGER		U.S. MAIL (INCLUDING SUBSIDY)		EXPRESS AND FREIGHT		EXCESS BAGGAGE		OTHER	
	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT
1971	7,701,402	100.0	6,736,350	87.5	224,283	2.9	485,182	6.3	13,562	0.2	242,027	3.1
1972	8,587,996	100.0	7,564,841	88.1	228,031	2.7	541,346	6.3	12,842	0.1	240,936	2.8
1973	9,604,652	100.0	8,379,396	87.3	257,745	2.7	615,099	6.4	14,289	0.1	338,124	3.5
1974	11,448,289	100.0	9,757,503	85.2	259,419	2.3	672,957	5.9	16,581	0.1	741,829	6.5
1975	11,910,894	100.0	10,113,091	84.9	185,336	1.6	696,135	5.8	18,863	0.2	897,469	7.5
1976	13,789,178	100.0	11,855,266	86.0	214,125	1.6	830,051	6.0	22,014	0.2	867,722	6.3
1977	15,690,236	100.0	13,489,111	86.0	277,518	1.7	960,857	6.1	20,913	0.1	941,837	6.1
1978	17,943,472	100.0	15,508,727	86.4	266,826	1.3	1,093,767	6.1	22,900	0.1	1,051,252	5.8
1979(R)	21,336,853	100.0	18,719,830	87.7	328,542	1.5	1,161,845	5.4	27,681	0.1	1,098,939	5.2
1980	26,012,345	100.0	23,068,236	88.7	438,236	1.7	1,204,460	4.6	32,134	0.1	1,264,810	4.9

(R)REVISED.

*DETAILS MAY NOT ADD TO TOTAL DUE TO ROUNDING.

TABLE 6.11

OPERATING EXPENSES OF DOMESTIC PASSENGER/CARGO OPERATORS,
CERTIFICATED ROUTE AIR CARRIERS: 1971 - 1980
(THOUSANDS OF DOLLARS)

YEAR	TOTAL OPERATING EXPENSES*		AIRCRAFT OPERATING EXPENSES						GROUND AND INDIRECT EXPENSE		NET OPERATING INCOME OR LOSS
			FLIGHT OPERATIONS		MAINTENANCE FLIGHT EQUIPMENT		DEPRECIATION AND AMORTIZATION FLIGHT EQUIPMENT AND OTHER				
	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT
1971	7,443,222	100.0	2,235,004	30.0	1,124,526	15.2	749,077	10.1	3,334,614	44.7	258,181
1972	8,096,695	100.0	2,324,560	28.7	1,239,456	15.3	773,823	9.6	3,758,854	46.4	491,300
1973	9,116,173	100.0	2,605,723	28.6	1,397,007	15.3	834,607	9.2	4,278,836	46.9	488,479
1974	10,648,991	100.0	3,297,164	31.0	1,499,920	14.1	865,229	8.1	4,986,680	46.8	799,289
1975	11,781,406	100.0	3,869,405	32.8	1,595,358	13.6	882,569	7.5	5,434,073	46.1	129,488
1976	13,231,448	100.0	4,401,280	33.3	1,802,164	13.6	920,144	7.0	6,089,859	46.1	575,730
1977	15,036,431	100.0	5,229,115	34.8	1,986,460	13.2	959,707	6.4	6,861,149	45.6	653,805
1978	16,948,581	100.0	5,577,201	32.9	2,125,080	12.5	1,213,125	7.2	8,033,173	47.4	994,891
1979(R)	21,213,615	100.0	7,867,090	37.1	2,421,163	11.4	1,351,777	6.4	9,573,453	45.1	123,238
1980	26,014,012	100.0	10,847,647	41.7	2,707,935	10.4	1,529,674	5.9	10,922,199	42.0	-1,666

(R)REVISED.

*DETAILS MAY NOT ADD TO TOTAL DUE TO ROUNDING.

TABLE 6.12

OPERATING REVENUE OF INTERNATIONAL/TERRITORIAL PASSENGER/CARGO OPERATORS,
CERTIFICATED ROUTE AIR CARRIERS: 1971 - 1980
(THOUSANDS OF DOLLARS)

YEAR	TOTAL OPERATING REVENUES*		PASSENGER		U.S. MAIL (INCLUDING SUBSIDY)		EXPRESS AND FREIGHT		EXCESS BAGGAGE		OTHER	
	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT
1971	2,080,262	100.0	1,483,973	71.4	90,188	4.3	220,553	10.6	15,672	0.8	269,874	12.9
1972	2,284,300	100.0	1,706,512	74.7	77,378	3.4	242,354	10.6	14,459	0.6	243,599	10.7
1973	2,526,878	100.0	1,894,914	75.0	71,366	2.8	268,055	10.6	15,231	0.6	277,314	11.0
1974	2,921,607	100.0	2,121,651	72.6	83,595	2.9	335,704	11.5	20,965	0.7	359,693	12.3
1975	3,063,399	100.0	2,230,081	72.9	89,793	2.9	355,805	11.6	25,476	0.8	362,245	11.8
1976	3,316,136	100.0	2,410,987	72.9	77,620	2.3	382,053	11.5	27,259	0.8	418,217	12.6
1977	3,774,262	100.0	2,785,706	73.8	79,582	2.1	425,296	11.3	20,797	0.6	462,882	12.3
1978	4,331,776	100.0	3,304,992	76.3	82,457	1.9	444,087	10.3	20,020	0.5	480,221	11.1
1979	5,191,458	100.0	4,071,327	78.4	96,251	1.8	529,840	10.2	22,743	0.4	471,297	9.1
1980	6,364,238	100.0	4,798,800	75.4	138,821	2.2	590,894	9.3	24,825	0.4	810,899	12.7

*DETAILS MAY NOT ADD TO TOTAL DUE TO ROUNDING.

TABLE 6.13

OPERATING EXPENSES OF INTERNATIONAL/TERRITORIAL PASSENGER/CARGO OPERATORS,
CERTIFICATED ROUTE AIR CARRIERS: 1971 - 1980
(THOUSANDS OF DOLLARS)

YEAR	TOTAL OPERATING EXPENSES*		AIRCRAFT OPERATING EXPENSES						GROUND AND INDIRECT EXPENSE		NET OPERATING INCOME OR LOSS
			FLIGHT OPERATIONS		MAINTENANCE FLIGHT EQUIPMENT		DEPRECIATION AND AMORTIZATION FLIGHT EQUIPMENT AND OTHER				
	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT
1971	2,050,095	100.0	573,008	28.2	269,031	12.7	190,220	9.6	1,017,834	50.0	30,167
1972	2,233,879	100.0	595,859	26.7	300,476	13.4	211,908	9.5	1,125,635	50.4	50,421
1973	2,458,971	100.0	680,521	27.6	316,597	12.9	213,772	8.8	1,248,081	50.7	67,907
1974	2,994,713	100.0	1,037,441	34.6	356,187	12.0	213,966	7.1	1,387,119	46.3	-73,104
1975	3,059,348	100.0	1,050,250	34.3	363,869	11.9	212,456	7.0	1,432,774	46.8	4,051
1976	3,182,236	100.0	1,089,387	34.2	368,190	11.6	192,879	6.1	1,531,780	48.1	133,900
1977	3,552,189	100.0	1,170,021	32.9	414,486	11.7	238,009	6.7	1,729,672	48.7	222,072
1978	4,007,653	100.0	1,210,641	30.2	457,787	11.4	303,424	7.6	2,035,801	50.8	324,124
1979(R)	5,105,027	100.0	1,795,279	35.2	520,805	10.2	327,028	6.4	2,461,915	48.2	86,384
1980	6,521,824	100.0	2,668,042	41.0	598,375	9.2	375,104	5.8	2,880,303	44.2	-157,585

(R)REVISED.

*DETAILS MAY NOT ADD TO TOTAL DUE TO ROUNDING.

VII. AIRMEN

Statistics pertaining to airmen, both pilot and nonpilot, were obtained from the official airmen certification records maintained by the Airmen Certification and Medical Certification Branches of the Mike Monroney Aeronautical Center at Oklahoma City, Oklahoma. Active pilots are those pilots who hold a pilot certificate and a valid medical certificate.

TABLE 7.1

ESTIMATED ACTIVE PILOT CERTIFICATES HELD: DECEMBER 31, 1971-1980

Category	1971	1972	1973 3/	1974	1975	1976	1977	1978	1979	1980
Pilot--total	741,009	750,869	714,607	733,728	728,187	744,246	r/783,932	798,833	814,667	827,071
Student	186,428	181,477	181,905	180,795	176,978	188,801	r/203,510	204,874	210,180	199,833
Private	312,656	321,413	298,921	305,848	305,863	309,005	327,424	337,644	343,276	357,479
Commercial	192,409	196,228	182,444	192,425	189,342	187,801	188,763	185,833	182,097	183,442
Airline transport . .	35,949	37,714	38,139	41,002	42,592	45,072	50,149	55,881	63,652	69,569
Helicopter (only) . .	7,992	7,987	5,968	5,647	4,932	4,804	4,819	4,874	5,218	6,030
Glider (only) 1/* . .	3,571	4,080	4,288	4,824	5,348	5,789	6,208	6,541	6,796	7,039
Lighter-than-air 1/* .	2,004	1,970	2,942	3,187	3,132	2,974	3,059	3,186	3,448	3,679
Nonpilot--total	307,057	r/315,348	304,747	314,394	323,934	334,681	348,584	362,350	377,213	393,486
Mechanic 1/	193,295	201,700	193,337	198,863	205,436	212,303	220,768	228,743	237,611	250,157
Parachute rigger 1/ .	6,839	7,287	6,941	7,900	8,327	8,718	8,994	9,200	9,381	9,547
Ground instructor 1/ .	46,145	48,450	46,827	49,249	51,365	53,464	55,717	57,738	59,680	61,550
Dispatcher 1/	5,480	5,637	5,527	5,576	5,741	5,838	5,972	6,161	6,446	6,799
Control tower operator	26,450	r/23,353	23,250	23,342	23,956	24,584	25,107	25,388	25,232	25,130
Flight navigator . . .	3,052	2,957	2,636	2,509	2,321	2,214	2,155	2,092	1,994	1,936
Flight engineer . . .	25,796	25,964	26,229	26,955	26,788	27,560	29,871	33,028	36,869	38,367
Flight instructor certificates	37,760	37,858	36,795	42,418	44,777	46,236	49,362	52,201	54,398	60,440
Instrument ratings 2/	179,261	187,909	185,969	199,323	203,954	211,364	226,334	236,312	247,096	260,461

Estimated: Data is based on a 27-month criteria for 1980. Past years are based on a 25-month criteria.

* Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination.

1/ Numbers represent all certificates on record. No medical examination required.

2/ Special ratings shown on pilot certificates, i.e., do not indicate additional certificates.

3/ The decrease in the number of airmen resulted from a purging of the airmen certification files. During this process, approximately 26,000 duplicates or faulty records were eliminated.

r/ Revised.

TABLE 7.2

ESTIMATED WOMEN ACTIVELY ENGAGED IN AVIATION: DECEMBER 31, 1971-1980

Category of Certificates Held	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Pilot--total	31,216	33,001	34,356	36,943	37,934	41,643	47,294	49,874	51,733	52,902
Student	16,417	17,053	18,593	19,298	19,600	22,254	25,705	26,354	26,714	26,006
Private	12,332	13,391	13,232	14,465	14,952	15,838	17,702	19,267	20,275	21,554
Commercial	2,032	2,196	2,083	2,596	2,733	2,857	3,090	3,306	3,618	3,993
Airline transport	84	101	95	116	137	160	193	270	361	480
Helicopter (only)	9	10	7	5	11	17	18	17	27	55
Glider (only) 1/*	169	201	216	271	301	352	391	433	461	496
Lighter-than-air 1/*	169	49	130	192	200	165	195	227	277	318
Nonpilot--total	3,413	3,594	3,074	3,471	3,809	4,252	4,716	5,135	5,600	6,111
Mechanic 1/	322	349	284	315	360	422	505	600	695	890
Parachute rigger 1/	470	483	336	495	504	516	535	544	553	562
Ground instructor 1/	2,081	2,166	1,960	2,139	2,249	2,369	2,525	2,682	2,852	3,015
Dispatcher 1/	39	40	39	42	50	55	65	76	105	141
Control tower operator	501	556	453	473	638	874	1,044	1,151	1,250	1,332
Flight engineer	0	0	2	7	8	16	42	82	145	171
Flight instructor	646	664	618	834	945	1,054	1,238	1,458	1,699	2,079

Estimated: Data is based on a 27-month criteria for 1980. Past years are based on a 25-month criteria.

NOTE: Instrument ratings and Flight navigator not reported.

* Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination.

TABLE 7.3

PILOT CERTIFICATES ISSUED, BY CATEGORY: CALENDAR YEARS 1976-1980

Category of Certificates	1976		1977		1978		1979		1980	
	Original Issuances	Additional Ratings	Original Issuances	Additional Ratings	Original Issuances	Additional Ratings	Original Issuances	Additional Ratings	Original Issuances	Additional Ratings
Pilot--total	204,489	39,112	212,331	44,708	216,107 r/	39,959	214,567	41,331	175,235	38,791
Student 1/	129,280	0	138,816	0	137,032 r/	0	135,956	0	102,301	0
Private	55,583	12,618	54,657	15,104	58,064	16,048	54,466	16,466	50,458	16,035
Commercial	13,577	22,059	11,121	22,806	11,789	17,501	12,627	17,793	12,452	16,015
Airline transport	3,869	3,901	5,697	6,229	6,912	5,921	8,981	6,603	7,116	6,289
Helicopter (only)	1,064	276	944	328	1,122	287	1,300	283	1,721	272
Glider (only)	848	238	792	220	759	188	642	157	583	151
Lighter-than-air	268	20	304	21	429	14	595	29	604	29
Nonpilot--total	15,069	7,751	16,066	7,267	16,418	6,679	17,895	7,129	17,280	7,275
Mechanic	8,501	3,149	9,121	3,307	8,791	3,269	9,697	3,812	11,640	4,254
Parachute rigger	454	76	304	36	235	50	201	45	185	50
Ground instructor	2,390	707	2,404	729	2,193	574	2,081	513	1,981	570
Dispatcher	106	0	161	0	193	0	292	0	351	0
Control tower operator . .	2,382	3,886	1,645	3,008	1,391	2,540	1,109	2,483	1,179	2,286
Flight navigator	2	0	16	0	8	1	2	0	9	0
Flight engineer	1,234	133	2,415	187	3,607	245	4,513	276	1,935	115
Flight instructor certificates 2/	6,137	4,718	6,352	6,397	5,930	5,375	6,716	6,072	7,188	6,953
Intrument ratings*	0	18,155	0	18,764	0	16,265	0	16,651	0	16,123

1/ Data represents the number processed each year.

r/ Revised.

Note: Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot--aircraft category, class, and type instrument rating.

Helicopter pilot--instrument and type ratings.

Flight instructor--ratings for each aircraft category in which the holder is qualified, and for instrument flying instruction.

Mechanic--airframe and powerplant ratings.

Parachute rigger--senior or master rigger ratings.

Ground instructor--ratings for each subject in which the holder is qualified to give instruction.

Air traffic control tower operator--junior/senior ratings for airport where holder may control air traffic.

* Special ratings shown on pilot certificates represented above; not to be added to total.

2/ Not included in total.

TABLE 7.4

INSTRUMENT RATINGS ISSUED: 1980, 1979, 1976

Class of Certificates	1980	1979	1976	Percent Change 1979-1980
Total--all groups	16,123	16,651	18,155	-3
Private pilots--total	10,418	10,311	6,686	+1
Private airplane (only)	9,714	9,584	6,135	+1
Private airplane, private glider	112	128	92	-12
Private airplane, commercial glider	6	6	4	0
Private airplane, private helicopter	15	20	12	-25
Private airplane, commercial helicopter	208	220	194	-5
Private airplane, private glider, private helicopter	1	0	0	0
Private airplane, other	362	353	249	+3
Commercial pilots--total	4,753	5,602	10,793	-15
Commercial airplane (only)	3,821	4,646	9,624	-18
Commercial airplane, private glider	45	70	125	-36
Commercial airplane, commercial glider	56	98	99	-43
Commercial airplane, private helicopter	2	2	1	0
Commercial airplane, commercial helicopter	810	753	920	-8
Commercial airplane, private glider, commercial helicopter	8	4	6	+100
Commercial airplane, commercial glider, commercial helicopter	10	23	12	+57
Commercial airplane, other	1	6	6	-83
Rotorcraft pilots--total	952	738	676	·29
Commercial helicopter	927	710	671	+31
Commercial helicopter, airline transport helicopter	22	21	3	+ 5
Commercial helicopter, private glider	1	4	1	-25
Commercial helicopter, commercial glider	2	3	1	-33
Commercial helicopter, other	0	0	0	0

TABLE 7.5

ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES: DECEMBER 31, 1979 AND 1980

Class of Certificates	1979	1980	Percent Change 1979-1980
Total--all groups	247,096	260,461	+ 5
Private pilots--total	35,528	39,347	+11
Private airplane (only)	32,935	36,529	+11
Private airplane, private glider	798	849	+ 6
Private airplane, commercial glider	68	68	—
Private airplane, private helicopter	225	242	+ 8
Private airplane, private glider, private helicopter	8	17	+112
Private airplane, commercial helicopter	1,471	1,617	+10
Private airplane, private gyroplane	2	2	—
Private airplane, private glider, commercial helicopter	14	14	—
Private airplane, commercial glider, commercial helicopter	6	8	+33
Private airplane, other	1	1	—
Commercial pilots--total	144,838	147,741	+ 2
Commercial airplane (only)	123,205	125,854	+ 2
Commercial airplane, private glider	1,760	1,883	+ 7
Commercial airplane, commercial glider	3,342	3,377	+ 1
Commercial airplane, private helicopter	129	140	+ 8
Commercial airplane, commercial helicopter	15,638	15,734	+ 1
Commercial airplane, private glider, commercial helicopter	144	138	- 4
Commercial airplane, commercial glider, commercial helicopter	549	549	—
Commercial airplane, commercial gyroplane	19	18	- 5
Commercial airplane, commercial helicopter, commercial gyroplane	27	22	-19
Commercial airplane, commercial gyroplane, comercial glider	1	1	—
Commercial airplane, commercial glider, private helicopter	10	11	+10
Commercial airplane, commercial gyroplane, commercial helicopter, commercial glider	14	14	—
Airline transport pilots--total	63,652	69,569	+ 9
Airline transport airline	62,976	68,760	+ 9
Airline transport airplane, airline transport helicopter	676	809	+20
Rotorcraft pilots--total	3,078	3,804	+24
Commercial helicopter	3,032	3,759	+24
Airline transport helicopter	30	28	- 7
Rotorcraft other	16	17	+ 6

Estimated: Data is based on a 27-month criteria for 1980. Past year is based on a 25-month criteria.

TABLE 7.6

ESTIMATED ACTIVE HELICOPTER PILOTS BY CLASS OF CERTIFICATES:

DECEMBER 31, 1980

Class of Certificates	Number of Certificates Held
Total	30 085
Private helicopter	374
Private gyroplane, private airplane	39
Private helicopter, private airplane	960
Private helicopter, private airplane, private glider	44
Private airplane, commercial gyroplane, commercial helicopter.	2
Private airplane, private glider, commercial helicopter.	23
Private gyroplane	5
Private airplane, commercial glider, commercial helicopter	10
Commercial helicopter	5,440
Commercial helicopter, private airplane	2,867
Commercial airplane, commercial helicopter.	18,253
Commercial airplane, private helicopter.	190
Commercial airplane, private glider, commercial helicopter	156
Commercial airplane, commercial glider, commercial helicopter	616
Commercial helicopter, private glider	9
Commercial helicopter, commercial glider	8
Commercial gyroplane, commercial airplane	29
Commercial airplane, commercial gyroplane, commercial glider	2
Commercial airplane, commercial gyroplane, commercial helicopter	27
Commercial airplane, commercial gyroplane, commercial helicopter, commercial glider.	15
Commercial helicopter, commercial gyroplane	2
Commercial airplane, commercial glider, private helicopter	13
Airline transport helicopter	192
Airline transport airplane, airline transport helicopter	809

Estimated: Data is based on a 27-month criteria.

TABLE 7.7

ESTIMATED ACTIVE GLIDER PILOTS BY CLASS OF CERTIFICATES:

DECEMBER 31, 1980

Class of Certificates	Number of Certificates Held
Total	19,626
Private glider	5,878
Private airplane, private glider	4,400
Private airplane, commercial glider	638
Private airplane, private glider, private helicopter	44
Private airplane, private glider, commercial helicopter	23
Private airplane, commercial glider, commerical helicopter	10
Private glider, commerical airplane	2,287
Private glider, commercial airplane, commerical helicopter	156
Private glider, commerical helicopter	9
Commercial glider	1,161
Commercial airplane, commercial glider	4,366
Commercial airplane, commercial glider, private helicopter	13
Commercial airplane, commercial glider, commercial helicopter	616
Commercial helicopter, commercial glider	8
Commercial airplane, commercial gyroplane, commercial glider, commercial helicopter	15
Commercial airplane, commercial gyroplane, commercial glider	2

Estimated: Data is based on a 27-month criteria.

TABLE 7.8

ESTIMATED ACTIVE HELICOPTER AND GLIDER PILOTS:

DECEMBER 31, 1976-80

Calendar Year	Total Helicopter Pilots 1/		Total Glider Pilots 2/	
	Number	Percent Change	Number	Percent Change
1980	30,085	+ 4	19,626	+ 3
1979	28,857	- 1	18,973	+ 2
1978	28,890	+ 1	18,610	+ 4
1977	28,566	+ 3	17,933	+ 6
1976	27,816	- 1	16,866	+ 6

Estimated: Data is based on a 27-month criteria. Past years are based on a 25-month criteria.

1/ Includes pilots with ratings to fly helicopters only.
2/ Includes pilots with ratings to fly gliders only.

TABLE 7.9

ESTIMATED TOTAL AND INSTRUMENT RATED PILOTS:

DECEMBER 31, 1976-80

Calendar Year	Total Pilots 1/	Instrument Rated Pilots	
		Number	Percent of Total
1980	627,238	260,461	42
1979	604,487	247,096	41
1978	593,959	236,312	40
1977	580,422	226,334	39
1976	555,625	211,364	38

Estimated: Data is based on a 27-month criteria. Past years are based on a 25-month criteria.

1/ Excludes student pilots.

TABLE 7.10

ESTIMATED ACTIVE PILOT CERTIFICATES HELD, BY CATEGORY AND AGE GROUP OF HOLDER: 1980, 1979, 1976

Age Group	Type of Pilot Certificates														
	Total Active Pilots			Student			Private			Commercial			Airline Transport		
	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976
Total . . .	827,071	814,667	744,246	199,833	210,180	188,801	357,479	343,276	309,005	183,442	182,097	187,801	69,569	63,652	45,072
14-15	260	368	408	260	368	408	0	0	0	0	0	0	0	0	0
16-19	31,071	33,574	31,063	23,335	25,537	22,881	7,069	7,324	7,503	468	468	379	0	0	0
20-24	94,956	94,928	89,665	44,946	46,260	43,540	35,825	35,731	34,067	12,334	11,227	10,405	686	612	264
25-29	120,234	120,076	115,012	40,503	42,657	38,038	50,423	49,195	42,588	20,627	20,564	28,197	5,975	5,191	3,066
30-34	134,396	133,615	118,760	32,461	33,728	28,537	54,510	51,629	43,711	29,774	32,078	37,129	13,656	12,528	6,916
35-39	115,600	113,478	97,822	21,448	22,858	19,155	48,309	46,046	39,250	31,695	31,949	30,990	11,865	10,571	6,993
40-44	91,898	89,250	85,569	13,718	14,323	13,881	40,393	38,511	36,633	25,353	24,922	26,247	10,870	10,109	7,656
45-49	78,758	79,011	75,761	9,749	10,840	10,759	37,177	37,346	40,338	21,164	20,944	17,254	9,408	8,641	6,214
50-54	66,185	63,685	63,322	7,210	7,448	6,564	37,976	36,250	32,642	13,669	13,297	17,006	6,100	5,506	6,103
55-59	52,785	51,464	42,322	3,734	3,849	3,197	25,662	23,516	18,775	15,783	16,143	13,608	6,576	6,930	5,919
60 and over	40,928	35,218	24,542	2,469	2,312	1,841	20,135	17,728	13,498	12,575	10,505	6,586	4,433	3,564	1,941

	Type of Pilot Certificates									Flight Instructor 1/		
	Helicopter (Only)			Glider (Only)			Lighter-than-air					
	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976
Total . . .	6,030	5,218	4,804	7,039	6,796	5,789	3,679	3,448	2,974	60,440	54,398	46,236
14-15	0	0	0	0	0	0	0	0	0	0	0	0
16-19	11	9	9	168	214	276	20	22	15	170	153	118
20-24	435	280	297	631	735	1,010	99	83	82	6,227	5,280	4,044
25-29	1,338	1,116	2,033	1,098	1,105	936	270	248	154	9,614	8,357	7,944
30-34	2,321	2,214	1,500	1,263	1,121	751	411	317	216	11,246	10,532	9,444
35-39	1,081	890	510	850	791	570	352	373	354	9,581	8,694	7,028
40-44	483	392	243	640	586	459	441	407	450	7,163	6,595	5,581
45-49	206	178	140	543	542	547	511	520	509	5,785	5,276	4,034
50-54	105	94	44	634	611	495	491	479	468	3,872	3,483	3,436
55-59	35	32	17	517	514	408	478	480	398	3,602	3,419	2,825
60 and over	15	13	11	695	577	337	606	519	328	3,180	2,609	1,782

Estimated: Data is based on a 27-month criteria for 1980. Past years are based on a 25-month criteria.

1/ Not included in total active pilots.

TABLE 7.11

ESTIMATED ACTIVE NONPILOTS PILOT CERTIFICATES HELD, BY CATEGORY AND AGE GROUP OF HOLDER: 1980, 1979, 1976

Age Group	Type of Pilot Certificates											
	Total Nonpilots			Mechanic 1/			Parachute Rigger 1/			Ground Instructor 1/		
	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976
Total . . .	393,486	377,213	334,681	250,157	237,611	212,303	9,547	9,381	8,718	61,550	59,680	53,464
16-19	823	760	609	739	648	459	2	2	10	63	70	63
20-24	16,927	15,880	13,855	11,894	10,437	7,735	180	219	442	2,111	2,122	1,986
25-29	31,962	31,164	33,064	18,768	17,526	19,763	927	1,060	1,360	4,876	4,738	4,680
30-34	52,960	52,235	45,468	28,870	28,652	26,201	1,698	1,625	1,372	7,186	7,220	7,165
35-39	50,[illegible]8	48,358	41,157	28,507	26,696	21,581	1,354	1,359	1,275	7,837	7,468	5,231
40-44	43,713	41,932	39,084	24,012	23,117	23,442	1,392	1,368	1,268	5,396	4,884	3,773
45-49	41,198	40,255	34,773	26,487	26,471	24,598	1,178	1,101	808	4,046	3,980	3,829
50-54	35,559	34,682	41,020	25,084	25,488	29,728	772	733	732	4,294	4,575	6,5[illegible]
55-59	44,895	46,256	40,101	32,712	33,398	28,283	742	731	557	7,577	8,231	7,886
60 and over .	75,051	65,691	45,550	52,084	45,178	30,513	1,302	1,183	894	18,164	16,392	12,315
	Dispatcher 1/			Control Tower Operator			Flight Navigator			Flight Engineer		
	1980	1979	1976	1980	1979	1976	1980	1979	1976	1980	1979	1976
Total . . .	6,799	6,446	5,838	25,130	25,232	24,584	1,936	1,994	2,214	38,367	36,869	27,560
16-19	0	0	1	19	40	76	0	0	0	0	0	0
20-24	68	49	17	2,119	2,449	3,461	1	0	0	554	604	214
24-29	344	286	244	4,555	4,857	5,913	2	1	2	2,490	2,696	1,102
30-34	616	582	629	6,741	6,538	4,787	8	11	64	7,841	7,607	5,250
35-39	804	765	630	4,011	3,631	3,452	113	206	498	7,772	8,233	8,490
40-44	691	663	685	2,901	3,152	3,233	532	554	537	8,789	8,194	6,146
45-49	724	712	651	2,633	2,632	1,867	467	403	272	5,663	4,956	2,748
50-54	664	681	775	1,127	896	894	235	266	328	2,383	2,043	2,071
55-59	869	908	965	650	743	719	316	344	408	2,029	1,901	1,483
60 and over .	2,019	1,800	1,241	374	294	182	262	209	105	846	635	300

Estimated: Data for 1980 is based on a 27-month criteria. Past years were based on a 25-month criteria

1/ Number represent all certificates on record. No medical examination required.

TABLE 7.12

ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1980

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous 2/	Flight Instructor 3/
Total	827,071	199,833	357,479	183,442	69,569	16,748	60,440
United States--total	810,581	195,924	354,285	178,217	65,795	16,360	59,692
New England--total . .	35,639	9,289	14,514	7,266	3,789	781	2,485
Maine	3,982	1,057	1,753	915	191	66	243
New Hampshire	4,378	952	1,553	1,024	751	98	297
Rhode Island	1,812	518	790	374	103	27	126
Massachusetts.	13,656	3,950	5,962	2,495	923	326	904
Connecticut	10,112	2,392	3,094	2,089	1,713	224	785
Vermont	1,699	420	762	369	108	40	130
Eastern--total	103,506	26,398	43,256	23,129	8,095	2,628	8,235
New York	31,374	8,673	13,351	6,428	1,951	971	2,409
Pennsylvania	23,018	6,055	10,093	4,622	1,717	531	1,961
Virginia	16,127	3,471	5,862	4,962	1,465	367	1,231
Maryland	10,318	2,487	4,567	2,354	678	232	747
West Virginia	3,130	919	1,353	635	175	48	230
Delaware	1,873	392	830	431	191	29	177
New Jersey	16,863	4,192	6,868	3,504	1,887	412	1,434
District of Columbia .	803	209	332	193	31	38	46
Great Lakes--total . .	139,193	34,505	68,031	26,096	8,314	2,247	10,048
Illinois	34,763	8,569	16,136	6,601	2,813	644	2,641
Indiana	15,430	3,913	7,755	2,909	637	216	1,126
Minnesota	19,098	4,324	9,387	3,757	1,422	208	1,208
Michigan	25,594	6,489	13,009	4,457	1,199	440	1,748
Ohio	29,470	7,397	14,700	5,787	1,519	567	2,343
Wisconsin	14,838	3,813	7,544	2,585	724	172	982
Central--total	50,858	11,464	25,866	10,088	2,760	680	3,348
Kansas	14,675	3,142	7,533	2,971	820	209	909
Iowa	12,101	2,821	6,761	2,044	331	144	717
Missouri	15,968	3,638	7,314	3,388	1,363	265	1,226
Nebraska	8,114	1,863	4,258	1,685	246	62	496
Southern--total	126,243	30,631	49,865	30,956	12,181	2,610	9,367
North Carolina	13,977	3,569	6,111	3,116	923	258	1,002
South Carolina	7,193	1,815	2,905	1,088	471	114	555
Georgia	18,082	4,142	6,393	4,395	2,771	381	1,239
Florida	50,983	11,813	19,693	12,875	5,760	842	3,743
Mississippi	6,253	1,611	2,459	1,822	282	79	449
Alabama	10,608	2,629	4,191	2,911	443	434	961
Tennessee	12,660	3,232	5,215	2,658	1,248	307	963
Kentucky	6,487	1,820	2,898	1,291	283	195	455
Southwest--total . . .	104,454	24,726	42,291	25,641	9,767	2,029	8,235
Louisiana	11,454	2,904	4,276	3,189	753	332	871
Oklahoma	15,460	3,716	7,291	3,447	797	209	1,118
Texas	63,289	14,652	24,564	15,380	7,488	1,205	5,193
New Mexico	6,995	1,707	3,039	1,687	353	209	522
Arkansas	7,256	1,747	3,121	1,938	376	74	531

TABLE 7.12 (Continued)

ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1980

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous 2/	Flight Instructor 3/
Rocky Mountain--total .	43,455	11,030	19,017	9,133	3,272	1,003	3,110
Colorado	20,215	5,106	7,742	4,237	2,388	742	1,577
Wyoming	3,228	877	1,534	648	137	32	226
Utah	6,376	1,668	2,969	1,269	359	111	424
Montana	5,778	1,368	2,981	1,169	214	46	377
North Dakota	4,048	1,017	1,918	1,010	78	25	273
South Dakota	3,810	994	1,873	800	96	47	233
Western---total	144,848	33,232	63,809	31,643	12,896	3,268	10,269
California	121,305	27,672	53,907	26,224	10,766	2,736	8,470
Arizona	17,010	4,045	7,347	3,965	1,223	430	1,261
Nevada	6,533	1,515	2,555	1,454	907	102	538
Northwest--total . . .	47,520	11,365	21,611	10,391	3,341	812	3,515
Washington	26,006	5,927	10,871	6,181	2,503	524	1,999
Oregon	15,402	3,957	7,795	2,892	549	209	1,055
Idaho	6,112	1,481	2,945	1,318	289	79	461
Alaskan Region--total .	10,917	2,379	4,910	2,731	777	120	766
Pacific Region--total .	3,948	905	1,115	1,143	603	182	314
Outside U.S.--total . .	16,490	3,909	3,194	5,225	3,774	388	748

Estimated: Data is based on a 27-month criteria.

NOTE: Puerto Rico and Virgin Islands are included in Outside U.S. total.

1/ Includes Outside U.S.

2/ Includes helicopter, glider, and lighter-than-air.

3/ Not included in total.

TABLE 7.13

ESTIMATED ACTIVE NONPILOT AIRMEN CERTIFICATES HELD, BY FAA REGION AND STATE

DECEMBER 31, 1980 1/

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Navigator	Flight Engineer
Total	393,486	250,157	9,547	61,550	6,799	25,130	1,936	38,367
United States--total	380,420	241,685	9,412	60,481	5,385	24,902	1,846	36,709
New England -total	19,139	12,302	394	2,856	138	971	207	2,271
Maine	1,224	708	39	251	12	117	9	88
New Hampshire	1,950	749	30	305	15	231	24	596
Rhode Island	960	611	45	189	5	55	4	51
Massachusetts	9,028	6,797	183	1,185	65	336	21	441
Connecticut	5,422	3,136	85	787	36	174	146	1,058
Vermont	555	301	12	139	5	58	3	37
Eastern--total	64,858	44,114	1,574	9,331	1,494	3,915	348	4,082
New York	27,832	20,032	386	3,378	1,139	1,712	127	1,058
Pennsylvania	14,327	10,520	334	2,141	108	589	54	581
Virginia	5,795	2,684	377	1,046	106	787	40	755
Maryland	3,416	1,939	137	711	21	260	16	332
West Virginia	1,039	582	51	245	2	126	1	31
Delaware	979	631	24	148	7	76	8	85
New Jersey	10,890	7,352	240	1,533	93	346	102	1,224
District of Columbia	580	374	25	129	18	19	0	15
Great Lakes--total	49,653	30,517	1,233	9,635	505	3,214	57	4,492
Illinois	14,952	8,912	281	2,666	248	796	19	2,030
Indiana	4,928	3,043	196	959	20	479	7	224
Minnesota	8,190	5,095	139	1,261	127	356	8	1,204
Michigan	7,959	5,075	198	1,763	44	577	9	293
Ohio	9,897	6,211	289	2,109	47	753	11	477
Wisconsin	3,727	2,181	130	877	19	253	3	264
Central--total	21,090	14,582	441	3,754	139	1,122	10	1,042
Kansas	6,260	4,361	115	1,081	35	342	0	326
Iowa	2,884	1,865	83	674	8	176	0	78
Missouri	10,086	7,215	175	1,565	92	434	6	599
Nebraska	1,860	1,141	68	434	4	170	4	39
Southern--total	62,314	36,827	1,742	9,473	1,143	5,634	294	7,201
North Carolina	4,619	2,451	358	889	48	640	9	224
South Carolina	2,165	1,006	80	483	7	411	7	171
Georgia	12,201	7,063	284	1,348	199	761	24	2,522
Florida	29,588	18,279	502	4,279	699	2,002	228	3,599
Mississippi	1,780	900	44	409	5	345	4	73
Alabama	5,845	3,888	138	888	101	710	8	112
Tennessee	4,313	2,258	168	821	78	537	12	439
Kentucky	1,803	982	168	356	6	228	2	61
Southwest--total	48,766	30,505	1,062	8,257	351	3,541	101	4,949
Louisiana	4,291	2,707	105	737	23	396	4	319
Oklahoma	10,894	8,244	186	1,623	22	579	12	228
Texas	29,595	17,371	619	4,963	287	2,046	74	4,233
New Mexico	1,967	1,029	86	461	12	303	8	68
Arkansas	2,019	1,154	66	471	7	217	3	101

TABLE 7.13 (Continued)

ESTIMATED ACTIVE NONPILOT AIRMEN CERTIFICATES HELD, BY FAA REGION AND STATE:

DECEMBER 31, 1980 1/

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Navigator	Flight Engineer
Rocky Mountain--total . . .	14,777	8,139	575	2,946	161	1,015	50	1,891
Colorado	8,421	4,469	156	1,579	137	434	35	1,611
Wyoming	886	580	30	186	6	45	4	35
Utah	1,939	1,109	77	364	12	222	6	149
Montana	1,770	942	261	401	3	106	4	53
North Dakota	867	511	25	189	2	124	0	16
South Dakota	894	528	26	227	1	84	1	27
Western---total	75,685	49,878	1,483	10,632	1,018	3,765	615	8,294
California	66,824	44,566	1,242	9,044	963	3,012	511	7,486
Arizona	6,618	4,330	189	1,151	39	495	23	391
Nevada	2,243	982	52	437	16	258	81	417
Northwest--total	17,299	10,431	720	2,673	191	1,073	138	2,073
Washington	12,036	7,169	349	1,694	162	736	95	1,831
Oregon	3,561	2,262	225	657	20	191	37	169
Idaho	1,702	1,000	146	322	9	146	6	73
Alaskan Region--total . . .	3,836	2,394	133	630	127	350	6	196
Pacific Region--total . . .	3,003	1,996	55	294	118	302	20	218
Outside U.S.--total	13,066	8,472	135	1,069	1,414	228	90	1,658

Estimated: Data is based on a 27-month criteria.

NOTE: Puerto Rico and Virgin Islands are included in Outside U.S. total.

1/ Data for control tower operators, flight engineers, and flight navigators represent total active ratings held. Data for dispatchers, mechanics, parachute riggers, and ground instructors, represent total ratings issued to date. These ratings retain their validity.

VIII. GENERAL AVIATION AIRCRAFT

Beginning in 1977, General Aviation Aircraft Activity information was obtained using the General Aviation Activity and Avionics Survey. Heretofore, the activity data were collected from each owner of a registered aircraft using the Aircraft Registration, Eligibility, Identification, and Activity report. Like the old form the survey collects data relative to flight hours, airframe hours and the avionics equipment on board the aircraft. In addition, the survey collects information about the number of hours flown under Instrument Flight Rules, fuel consumption rates, and the state where the aircraft is based.

The 1979 sample of 35,145 aircraft was selected from approximately 248,000 registered general aviation aircraft (1980 sample of 35,834 aircraft was selected from approximately 256,000). The sample is a scientifically designed random sample which represents all general aviation aircraft registered in the United States.

Because the estimates are derived from a sample--not the total population of aircraft--a certain amount of sampling error is introduced. The user must consider this error along with the estimate itself when making an inference or drawing any conclusions about the aircraft population. Although the exact value of the sample error is unknown, a quantity known as the standard error is used to approximate it. Using the standard error one can develop an interval within which the true population estimate will lie with a known probability. The probability that the true value lies within the interval depends on the width of the interval, i.e., the estimate

plus or minus 1, 2, or 3 times the standard error. The table below shows selected interval widths and their corresponding confidence.

Width of Interval	Approximate Confidence That Interval Includes True Value
1 standard error	68%
2 standard errors	95%
3 standard errors	99%

For example, if the estimate for the total number of active piston powered rotorcraft were 2,658 and the standard error were 176, then the 95% confidence interval would be 2,658 $\pm$ 2(176) or (2306, 3010). One would say that there is a 95% chance that the number of active piston powered rotorcraft lies between 2306 and 3010.

In some tables the standard error is expressed as a percent. To calculate the standard error multiply the estimate by the percentage. To derive the 95% confidence interval proceed as before. For example, if total hours flown were 35,792 thousand hours and the percentage standard error were 3.0%. The 95% confidence interval is:

$$35{,}792 \pm (2 \times 3\% \times 35{,}792) =$$

$$35{,}792 \pm 2148 =$$

$$(33{,}644;\ 37{,}940)$$

The standard error, percent standard error, or a code for the standard error is shown for each estimate made from the sample in this chapter.

More detailed estimates and a more detailed discussion of the survey and its methodology are available in 1979 General Aviation Activity and Avionics Survey.

TABLE 8.1

ACTIVE GENERAL AVIATION AIRCRAFT BY AIRCRAFT TYPE AND PRIMARY USE
(STANDARD ERROR IS SHOWN IN PARENTHESES)
1979

Aircraft Type	Total Active	Executive	Business	Personal	Aerial Application	Instructional	Air Taxi	Industrial	Rental	Other	Inactive
Fixed-Wing--total	199,703	13,068	48,608	90,463	6,665	14,857	7,036	2,592	12,294	4,177	34,136
	(768)	(A)	(A)	(A)	(A)	(A)	(A)	(B)	(A)	(A)	(A)
Piston--total	193,470	8,670	48,071	90,395	6,630	14,808	6,299	2,577	12,222	3,795	33,737
	(767)	(A)	(A)	(A)	(A)	(A)	(A)	(B)	(A)	(A)	(A)
One Engine	168,390	3,426	38,038	86,947	6,401	13,938	2,547	2,291	11,727	3,071	31,086
	(745)	(A)	(A)	(A)	(A)	(A)	(B)	(B)	(A)	(B)	(A)
Two Engine	24,850	5,243	9,996	3,441	152	865	3,708	285	455	702	2,491
	(181)	(A)	(A)	(A)	(C)	(B)	(A)	(C)	(C)	(B)	(A)
Other Piston	229	0	36	6	76	4	43	0	38	21	159
	(11)	(A)	(B)	(D)	(B)	(D)	(A)	(A)	(C)	(C)	(A)
Turboprop--total	3,579	2,357	442	62	34	3	490	14	25	148	118
	(21)	(A)	(B)	(D)	(B)	(D)	(B)	(D)	(D)	(C)	(B)
Two Engine	3,482	2,349	431	56	2	3	480	14	20	124	84
	(20)	(A)	(B)	(D)	(D)	(D)	(B)	(D)	(D)	(C)	(C)
Other Turboprop	96	8	10	5	32	0	10	0	5	24	34
	(3)	(C)	(C)	(D)	(A)	(A)	(A)	(A)	(D)	(B)	(A)
Turbojet--total	2,653	1,980	94	5	0	45	245	1	46	233	280
	(30)	(A)	(C)	(C)	(A)	(D)	(B)	(D)	(A)	(B)	(B)
Two Engine	2,309	1,817	67	0	0	41	238	1	0	143	73
	(29)	(A)	(D)	(A)	(A)	(D)	(B)	(D)	(A)	(C)	(D)
Other Turbojet	343	162	27	5	0	4	7	0	46	90	207
	(6)	(A)	(B)	(C)	(A)	(D)	(D)	(A)	(A)	(B)	(A)
Rotorcraft--total	5,864	597	651	689	808	288	1,358	663	30	776	2,505
	(136)	(B)	(B)	(B)	(B)	(C)	(A)	(B)	(D)	(B)	(A)
Piston	3,123	125	324	662	729	238	129	458	10	445	2,222
	(127)	(D)	(C)	(B)	(B)	(C)	(D)	(B)	(D)	(B)	(A)
Turbine	2,740	472	327	27	78	49	1,228	205	20	331	283
	(50)	(B)	(C)	(D)	(D)	(D)	(A)	(C)	(D)	(C)	(B)
Other--total	4,770	31	397	3,274	20	309	4	2	446	282	1,085
	(114)	(D)	(B)	(A)	(D)	(C)	(D)	(D)	(B)	(C)	(B)
Total All Aircraft	210,339	13,638	49,658	94,427	7,494	15,456	8,399	3,259	12,771	5,236	37,661
	(789)	(474)	(1,060)	(1,200)	(247)	(698)	(424)	(326)	(670)	(368)	(789)

NOTE: ROW AND COLUMN SUMMATION MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

STANDARD ERROR

Greater Than	Less Than or Equal To	Code
0%	10%	A
10%	20%	B
20%	30%	C
30%		D

TABLE 8.1A

ACTIVE GENERAL AVIATION AIRCRAFT BY AIRCRAFT TYPE AND PRIMARY USE
(STANDARD ERROR IS SHOWN IN PARENTHESES)
1980

Aircraft Type	Total	Executive	Business	Personal	Aerial Application	Instructional	Commuter Carrier	Air Taxi	Industrial	Rental	Other
Fix --Wing--Total	200,097	13,796	48,248	92,320	6,607	13,988	940	6,827	1,856	11,549	4,167
	(923)	(A)	(A)	(A)	(A)	(A)	(B)	(A)	(B)	(A)	(A)
Piston--Total	193,014	8,845	47,717	92,301	6,548	13,954	675	6,159	1,824	11,229	5,800
	(921)	(A)	(A)	(A)	(A)	(A)	(B)	(A)	(A)	(A)	(B)
One Engine	168,435	5,202	38,374	89,250	6,160	13,357	105	2,945	1,485	10,718	2,857
	(874)	(B)	(A)	(A)	(A)	(A)	(D)	(B)	(B)	(A)	(B)
Two Engine	24,366	3,640	9,320	9,039	515	577	542	3,179	341	479	951
	(290)	(A)	(A)	(A)	(C)	(C)	(C)	(A)	(D)	(C)	(B)
Other Piston	212	2	22	11	75	0	24	15	0	51	52
	(17)	(D)	(D)	(D)	(B)	(A)	(B)	(C)	(A)	(D)	(C)
Turboprop--Total	4,090	2,600	420	10	58	1	256	501	9	70	161
	(46)	(A)	(B)	(D)	(B)	(D)	(B)	(B)	(D)	(D)	(C)
Two Engine	3,966	2,595	409	10	0	1	248	490	9	63	138
	(45)	(A)	(B)	(D)	(A)	(D)	(D)	(B)	(D)	(D)	(C)
Other Turboprop	123	4	11	0	58	0	8	10	0	6	23
	(10)	(D)	(C)	(A)	(B)	(A)	(D)	(D)	(A)	(D)	(C)
Turbojet--Total	2,992	2,550	110	8	0	52	9	187	23	44	203
	(40)	(A)	(D)	(C)	(A)	(D)	(D)	(C)	(D)	(B)	(C)
Two Engine	2,551	2,084	90	0	0	49	9	172	23	7	118
	(57)	(A)	(D)	(A)	(A)	(D)	(D)	(C)	(D)	(D)	(D)
Other Turbojet	441	266	19	8	0	3	0	14	0	42	86
	(13)	(B)	(B)	(C)	(A)	(A)	(A)	(D)	(A)	(A)	(D)
Rotorcraft Total	6,076	947	749	592	684	274	1	785	956	260	749
	(142)	(B)	(B)	(B)	(B)	(C)	(D)	(B)	(B)	(D)	(B)
Piston	2,794	71	419	560	587	254	0	69	426	6	598
	(133)	(D)	(B)	(B)	(B)	(C)	(A)	(D)	(C)	(D)	(B)
Turbine	3,207	875	329	31	97	19	1	716	530	255	550
	49)	(B)	(D)	(D)	(D)	(D)	(D)	(B)	(C)	(D)	(C)
Other--Total	4,945	116	593	3,808	1	598	1	1	0	224	299
	(142)	(D)	(B)	(A)	(D)	(B)	(D)	(D)	(A)	(C)	(C)
Total All Aircraft	211,045	14,860	49,391	96,222	7,294	14,862	944	7,615	2,815	11,829	5,216
	945)	(540)	(1,120)	(1,266)	(270)	(709)	(155)	(467)	(506)	(691)	(585)

NOTE: Row and column ...tion may differ from printed totals due to estimation procedures.

Standard Error

Greater Than	Less Than or Equal To	Code
0%	10%	A
10%	20%	B
20%	30%	C
30%		D

TABLE 8.2

ACTIVE GENERAL AVIATION AIRCRAFT BY AIRCRAFT TYPE
1976-1980

	1980 (STANDARD ERROR)	1979 (STANDARD ERROR)	1978 (STANDARD ERROR)	1977 (STANDARD ERROR)	1976
FIXED-WING--TOTAL	200,097 (923)	199,703 (768)	189,433 (1,061)	175,951	170,595
PISTON--TOTAL	193,014 (921)	193,470 (767)	183,823 (1,258)	170,785 (1,015)	66,059
ONE ENGINE	168,435 (874)	168,590 (745)	160,651 (1,214)	149,300 (1,002)	144,752
TWO ENGINE	24,366 (290)	24,850 (181)	22,950 (329)	21,301 (165)	21,111
OTHER PISTON	212 (17)	229 (11)	221 (10)	182 (11)	196
TURBOPROP--TOTAL	4,090 (46)	3,579 (21)	3,130 (69)	2,890 (20)	2,455
TWO ENGINE	3,966 (68)	3,482 (20)	3,075	2,825	2,596
OTHER TURBOPROP	123 (10)	96 (3)	56 (3)	64 (4)	57
TURBOJET--TOTAL	2,992 (40)	26,653 (30)	2,480 (44)	2,277 (22)	1,881
TWO ENGINE	2,551 (37)	2,309 (29)	2,115 (27)	1,959 (19)	1,692
OTHER TURBOJET	441 (13)	343 (6)	364 (34)	318 (10)	189
ROTORCRAFT--TOTAL	6,001 (142)	5,864 (136)	5,315 (119)	4,726 (179)	4,425
PISTON	2,794 (133)	3,123 (127)	2,882 (115)	2,658 (176)	2,701
TURBINE	3,207 (49)	2,740 (50)	2,492 (30)	2,067 (27)	1,724
OTHER--TOTAL	4,945 (142)	4,770 (114)	4,028 (75)	3,616 (69)	3,146
TOTAL ALL AIRCRAFT	211,045 (945)	210,339 (789)	199,178 (1,269)	184,294 (1,034)	177,964

NOTE: COLUMNS MAY NOT ADD TO TOTALS DUE TO ROUNDING AND ESTIMATION PROCEDURES.

TABLE 8.3

ACTIVE GENERAL AVIATION AIRCRAFT TOTAL HOURS FLOWN
BY AIRCRAFT TYPE AND PRIMARY USE
(PERCENT STANDARD ERROR IS SHOWN IN PARENTHESES)
1979

Aircraft Type	Total	Executive	Business	Personal	Aerial Application	Instructional	Air Taxi	Industrial	Rental	Other
Fixed-Wing--Total	40,432,246	4,695,425	8,698,740	9,243,465	2,057,799	6,349,277	3,548,388	814,386	4,139,292	760,245
	(1.5)	(4.8)	(3.3)	(2.9)	(4.8)	(6.6)	(6.8)	(15.2)	(6.7)	(10.9)
Piston--Total	37,302,035	2,715,649	8,485,301	9,209,295	2,037,354	6,314,745	2,952,640	807,209	4,109,671	651,332
	(1.6)	(7.2)	(3.4)	(2.9)	(4.9)	(6.6)	(7.6)	(15.3)	(6.8)	(12.1)
One-Engine	30,289,011	1,107,488	6,241,103	8,742,696	1,988,580	6,076,645	1,042,369	665,588	3,951,154	561,084
	(1.9)	(14.0)	(4.0)	(3.0)	(5.0)	(6.9)	(12.9)	(17.3)	(7.0)	(13.7)
Two-Engine	6,861,212	1,604,385	2,268,871	471,747	19,301	231,587	1,854,355	150,880	126,606	84,910
	(2.9)	(7.3)	(5.9)	(10.9)	(26.6)	(19.1)	(9.3)	(27.5)	(24.7)	(22.4)
Other Piston	151,811	0	18,479	1,897	21,864	763	72,949	0	32,774	2,929
	(9.6)	(0.0)	(26.4)	(50.4)	(35.4)	(54.9)	(5.0)	(0.0)	(23.2)	(37.9)
Turboprop--Total	1,871,315	1,065,346	169,946	36,720	20,540	5,061	496,259	7,123	6,864	46,324
	(3.9)	(5.6)	(21.9)	(78.1)	(16.4)	(119.3)	(13.9)	(81.6)	(68.2)	(33.4)
Two-Engine	1,826,650	1,062,925	166,054	36,380	745	5,061	491,473	7,123	3,765	37,466
	(4.0)	(5.6)	(22.4)	(81.8)	(219.7)	(119.3)	(14.2)	(81.6)	(84.5)	(40.9)
Other Turboprop	44,665	2,407	3,898	260	19,701	0	5,146	0	3,328	8,710
	(5.0)	(26.4)	(26.8)	(37.1)	(3.8)	(0.0)	(7.3)	(0.0)	(40.4)	(16.3)
Turbojet--Total	1,258,895	937,487	61,710	247	0	30,518	137,719	341	24,051	67,359
	(3.2)	(4.1)	(27.4)	(55.5)	(0.0)	(48.6)	(19.4)	(261.3)	(12.9)	(18.1)
Two-Engine	1,124,694	896,421	42,087	0	0	23,770	135,278	341	0	57,356
	(3.4)	(4.4)	(37.9)	(0.0)	(0.0)	(53.2)	(19.9)	(261.3)	(0.0)	(28.1)
Other Turbojet	134,200	68,753	19,454	247	0	6,646	2,621	0	24,051	10,034
	(7.0)	(11.2)	(21.3)	(55.5)	(0.0)	(43.7)	(33.6)	(0.0)	(12.9)	(13.3)
Rotorcraft--Total	2,555,187	301,686	234,111	41,794	313,948	58,740	1,032,993	309,859	7,121	260,541
	(5.7)	(20.0)	(23.2)	(20.0)	(19.5)	(29.5)	(11.7)	(17.5)	(67.7)	(21.1)
Piston	891,537	94,100	90,026	30,226	280,626	52,991	34,062	176,750	2,288	128,831
	(10.9)	(42.0)	(37.6)	(24.1)	(21.0)	(32.3)	(40.1)	(23.9)	(68.5)	(30.0)
Turbine	1,663,650	206,342	145,551	11,778	33,380	5,723	1,000,955	132,901	4,833	132,611
	(6.5)	(23.4)	(30.3)	(77.6)	(49.5)	(76.8)	(12.0)	(25.0)	(95.2)	(29.8)
Other--Total	352,644	2,407	52,553	173,420	2,898	40,559	133	81	45,513	32,328
	(8.2)	(36.9)	(27.0)	(6.8)	(93.4)	(23.2)	(109.4)	(196.9)	(22.0)	(20.8)
Total All Aircraft	43,340,081	5,000,539	8,979,461	9,470,924	2,372,188	6,461,851	4,572,625	1,119,585	4,206,267	1,051,744
	(1.4)	(1.3)	(1.4)	(12.5)	(6.3)	(5.1)	(5.8)	(4.1)	(5.9)	(0.4)

NOTE: Row and column summations may differ from printed totals due to estimation procedures.

TABLE 8.3A

ACTIVE GENERAL AVIATION AIRCRAFT TOTAL HOURS FLOWN BY AIRCRAFT TYPE AND PRIMARY USE
(PERCENT STANDARD ERROR IS SHOWN IN PARENTHESES)
1980

Aircraft Type	Total	Executive	Business	Personal	Aerial Application	Instructional	Commuter Carrier	Air Taxi	Industrial	Rental	Other
Fixed-Wing--total	38,318,076 (1.7%)	4,940,554 (5.7%)	8,147,068 (3.4%)	8,664,439 (3.4%)	1,801,738 (6.4%)	5,555,435 (6.5%)	959,664 (16.6%)	3,102,111 (7.4%)	563,251 (16.3%)	3,702,529 (7.4%)	778,024 (12.6%)
Piston--total	34,746,730 (1.8%)	2,731,730 (9.3%)	7,938,350 (3.5%)	8,661,819 (3.4%)	1,769,390 (6.5%)	5,530,627 (6.5%)	560,677 (23.5%)	2,709,666 (8.1%)	546,730 (16.6%)	3,654,683 (7.5%)	655,998 (14.1%)
One Engine	28,339,259 (2.1%)	1,078,070 (19.0%)	6,180,25. (4.0%)	..255,889 (3.5%)	1,711,644 (6.6%)	5,343,555 (6.7%)	66,199 (55.8%)	1,292,631 (12.6%)	458,351 (18.8%)	3,477,105 (7.7%)	514,881 (17.1%)
Two Engine	6,277,220 (3.6%)	1,634,963 (7.9%)	1,783,661 (7.0%)	421,725 (17.1%)	41,505 (25.2%)	180,968 (24.4%)	444,680 (27.7%)	1,401,900 (10.5%)	86,292 (32.3%)	142,694 (25.5%)	124,428 (18.5%)
Other Piston	130,250 (13.7%)	494 (151.7%)	9,613 (43.8%)	183 (49.6%)	8,031 (16.1%)	0 (0.0%)	47,430 (18.0%)	15,249 (28.8%)	0 (0.0%)	36,024 (55.6%)	13,105 (29.5%)
Turboprop--total	2,239,754 (3.6%)	1,171,485 (5.5%)	189,110 (20.7%)	2,596 (119.2%)	32,236 (24.4%)	102 (59.9%)	395,428 (14.9%)	319,695 (17.7%)	4,209 (111.2%)	30,857 (46.8%)	65,146 (22.6%)
Two Engine	2,183,406 (3.6%)	1,171,485 (5.5%)	186,648 (21.2%)	2,596 (119.2%)	0 (0.0%)	102 (59.9%)	385,183 (15.3%)	314,194 (18.1%)	4,209 (111.2%)	29,124 (51.5%)	59,251 (25.8%)
Other Turboprop	56,347 (18.3%)	1,259 (90.6%)	1,204 (31.3%)	0 (0.0%)	32,236 (24.4%)	0 (0.0%)	10,244 (62.2%)	5,750 (55.0%)	0 (0.0%)	1,075 (45.5%)	5,735 (34.1%)
Turbojet--total	1,331,591 (4.4%)	1,071,380 (5.3%)	41,252 (34.3%)	82 (26.7%)	0 (0.0%)	25,585 (47.3%)	5,292 (68.2%)	82,109 (22.8%)	14,697 (79.3%)	22,007 (18.6%)	66,860 (30.8%)
Two Engine	1,162,554 (4.5%)	951,080 (5.5%)	31,514 (41.7%)	0 (0.0%)	0 (0.0%)	26,072 (50.2%)	5,292 (68.2%)	76,779 (24.0%)	14,697 (79.3%)	587 (195.0%)	57,587 (59.6%)
Other Turbojet	169,037 (15.9%)	119,775 (17.3%)	9,577 (26.3%)	82 (26.6%)	0 (0.0%)	12 (0.0%)	0 (0.0%)	5,580 (70.1%)	0 (0.0%)	21,699 (14.9%)	7,960 (40.2%)
Rotorcraft-total	2,338,430 (5.9%)	380,064 (19.3%)	257,975 (25.2%)	34,382 (14.2%)	239,732 (17.4%)	68,949 (29.1%)	1,552 (152.6%)	459,618 (18.5%)	496,095 (17.7%)	195,552 (48.6%)	205,669 (21.6%)
Piston	735,638 (10.2%)	10,145 (47.2%)	60,178 (23.1%)	30,887 (15.2%)	204,962 (19.4%)	64,247 (29.5%)	0 (0.0%)	19,387 (55.2%)	212,597 (26.0%)	1,945 (61.7%)	126,342 (28.5%)
Turbine	1,602,852 (7.2%)	371,900 (20.2%)	199,656 (39.0%)	3,536 (44.3%)	34,948 (34.6%)	4,711 (135.3%)	1,552 (152.6%)	423,277 (19.6%)	284,825 (24.0%)	195,685 (49.6%)	75,299 (51.0%)
Other--total	358,976 (5.9%)	7,317 (33.0%)	28,877 (29.9%)	175,208 (6.6%)	183 (66.2%)	107,311 (17.7%)	160 (307.5%)	52 (98.3%)	0 (0.0%)	24,916 (30.5%)	23,555 (27.0%)
Total All Aircraft	41,015,542 (1.6%)	5,331,823 (4.6%)	8,433,501 (2.8%)	8,893,962 (5.1%)	2,043,840 (5.8%)	5,748,157 (4.3%)	960,901 (10.3%)	3,555,466 (5.7%)	1,052,818 (8.5%)	3,917,085 (4.7%)	1,008,073 (10.2%)

TABLE 8.4

ACTIVE GENERAL AVIATION AIRCRAFT TOTAL HOURS FLOWN BY AIRCRAFT TYPE
1976-1980
(HOURS IN THOUSANDS)

	1980 (STANDARD ERROR)	1979 (STANDARD ERROR)	1978 (STANDARD ERROR) (R)	1977 (STANDARD ERROR)	1976
FIXED-WING--TOTAL	38,318 (635)	40,452 (610)	36,844 (1,188)	35,679 (1,064)	31,950
PISTON--TOTAL	34,747 (627)	37,302 (604)	34,043 (1,185)	30,965 (1,061)	29,715
ONE-ENGINE	28,339 (585)	30,289 (569)	27,857 (1,144)	24,916 (1,036)	24,528
TWO-ENGINE	6,277 (224)	6,861 (202)	6,082 (306)	5,951 (227)	5,501
OTHER PISTON	130 (18)	152 (15)	104 (7)	96 (5)	84
TURBOPROP--TOTAL	2,240 (79)	1,871 (73)	1,606 (80)	1,549 (71)	1,526
TWO-ENGINE	2,183 (78)	1,827 (73)	1,582 (80)	1,517 (70)	1,506
OTHER TURBOPROP	56 (10)	45 (2)	24 (3)	32 (5)	20
TURBOJET--TOTAL	1,332 (59)	1,259 (40)	1,194 (55)	1,165 (50)	911
TWO-ENGINE	1,163 (52)	1,125 (39)	1,019 (44)	1,043 (49)	844
OTHER TURBOJET	169 (27)	134 (9)	176 (30)	122 (11)	67
ROTORCRAFT--TOTAL	2,338 (138)	2,555 (146)	2,228 (157)	1,868 (129)	1,705
PISTON	736 (75)	892 (97)	806 (79)	609 (90)	755
TURBINE	1,603 (116)	1,664 (108)	1,421 (135)	1,259 (95)	950
OTHER--TOTAL	359 (21)	353 (29)	338 (20)	245 (16)	270
TOTAL ALL AIRCRAFT	41,016 (650)	43,340 (627)	39,409 (1,199)	35,791 (1,073)	33,922

NOTE: COLUMNS MAY NOT ADD TO TOTALS DUE TO ROUNDING AND ESTIMATION PROCEDURES.
(R): REVISED

TABLE 8.5

ACTIVE GENERAL AVIATION AIRCRAFT AVERAGE HOURS FLOWN BY AIRCRAFT TYPE
1976-1980

	1980 (Standard Error)	1979 (Standard Error)	1978 (Standard Error)	1977 (Standard Error)	1976
Fixed-Wing--Total	187.7	200.2	193.7	191.3	187.5
	(3.1)	(3.0)	(5.8)	(5.9)	
Piston--Total	178.2	191.8	184.3	181.5	178.9
	(3.1)	(3.0)	(5.9)	(6.1)	
One-Engine	168.2	180.2	172.4	166.5	168.1
	(3.4)	(3.3)	(6.6)	(6.8)	
Two-Engine	254.8	273.2	263.7	280.4	251.1
	(8.4)	(7.6)	(12.3)	(10.4)	
Other Piston	625.4	650.4	477.4	528.8	428.6
	(38.8)	(27.9)	(22.0)	(21.3)	
Turboprop--Total	533.4	511.7	509.2	533.4	540.6
	(16.1)	(18.4)	(23.4)	(23.5)	
Two-Engine	534.8	513.1	510.7	534.5	545.1
	(16.4)	(19.0)	(23.8)	(24)	
Other Turboprop	487.4	465.0	424.8	481.9	350.9
	(73.1)	(2.9)	(6.6)	(8.5)	
Turbojet--Total	443.6	473.2	475.2	509.0	484.3
	(16.6)	(14.0)	(17.9)	(20.2)	
Two-Engine	456.1	487.5	481.1	527.7	498.8
	(18.4)	(15.8)	(19.1)	(22.4)	
Other Turbojet	349.9	382.2	432.1	385.0	354.5
	(29.1)	(21.3)	(51.1)	(42.2)	
Rotorcraft--Total	382.4	433.5	422.1	396.3	384.9
	(20.7)	(22.8)	(28.5)	(25.5)	
Piston	262.9	284.3	285.6	230.5	278.8
	(20.9)	(27.2)	(23.6)	(29.6)	
Turbine	497.7	609.3	571.0	608.3	551.0
	(35.4)	(38.1)	(53.8)	(44.1)	
Other--Total	75.0	72.7	83.7	67.8	85.8
	(3.9)	(5.2)	(4.2)	(4.2)	
Total All Aircraft	190.5	203.5	197.7	194.2	190.6
	(3.0)	(2.9)	(5.6)	(5.7)	

TABLE 8.6

ACTIVE GENERAL AVIATION AIRCRAFT AND HOURS FLOWN
BY FAA REGION AND STATE OF BASED AIRCRAFT
1979

FAA Region and State	Active Aircraft		Hours Flown	
	Aircraft	Standard Error	Hours (000)	Standard Error (000)
Total	210,339	789	43,340	627
Alaskan Region--Total	5,842	392	1,032	129
Central--Total	14,106	679	2,676	205
Iowa	3,545	349	635	121
Kansas	3,848	364	779	113
Missouri	4,142	375	787	109
Nebraska	2,569	299	475	93
Eastern--Total	23,217	843	4,212	237
Delaware	710	148	130	38
District of Columbia	62	35	24	14
Maryland	2,492	294	408	69
New Jersey	3,962	369	709	98
New York	6,168	454	991	118
Pennsylvania	5,907	438	1,134	138
Virginia	2,756	309	598	119
West Virginia	1,156	204	198	46
Great Lakes--Total	36,563	1,029	6,526	306
Illinois	8,153	520	1,405	178
Indiana	4,569	397	913	173
Michigan	7,279	499	1,270	128
Minnesota	4,772	398	986	139
Ohio	7,687	508	1,053	110
Wisconsin	4,100	368	830	117
New England--Total	7,407	496	1,420	143
Connecticut	1,670	237	267	72
Maine	1,077	191	180	46
Massachusetts	2,787	315	601	106
New Hampshire	1,016	178	184	54
Rhode Island	413	120	85	27
Vermont	442	121	88	36
Northwest--Total	14,472	679	2,580	211
Idaho	2,112	265	329	59
Oregon	5,729	436	1,105	146
Washington	6,578	468	1,096	139

TABLE 8.6 (CONTINUED)

ACTIVE GENERAL AVIATION AIRCRAFT AND HOURS FLOWN
BY FAA REGION AND STATE OF BASED AIRCRAFT
1979

FAA REGION AND STATE	ACTIVE AIRCRAFT		HOURS FLOWN	
	AIRCRAFT	STANDARD ERROR	HOURS (000)	STANDARD ERROR (000)
PACIFIC--TOTAL	692	153	338	90
HAWAII	530	130	265	76
ROCKY MOUNTAIN--TOTAL	12,805	646	2,470	176
COLORADO	4,560	389	920	112
MONTANA	2,447	298	363	68
NORTH DAKOTA	1,482	228	342	83
SOUTH DAKOTA	1,495	225	275	64
UTAH	1,623	238	356	76
WYOMING	1,197	203	195	44
SOUTHERN--TOTAL	30,193	943	6,850	369
ALABAMA	2,561	290	477	78
FLORIDA	10,662	590	2,574	279
GEORGIA	4,121	371	847	141
KENTUCKY	1,534	226	390	116
MISSISSIPPI	2,337	281	636	124
NORTH CAROLINA	4,017	371	742	105
PUERTO RICO	438	117	144	43
SOUTH CAROLINA	1,667	238	375	86
TENNESSEE	2,498	287	492	81
SOUTHWEST--TOTAL	30,806	938	7,701	403
ARKANSAS	2,664	290	533	82
LOUISIANA	3,526	325	1,314	177
NEW MEXICO	2,217	270	430	98
OKLAHOMA	4,558	394	1,153	178
TEXAS	17,519	735	4,034	303
WESTERN---TOTAL	34,333	989	7,144	396
ARIZONA	4,525	391	989	135
CALIFORNIA	27,980	908	5,726	370
NEVADA	1,827	241	371	81
OTHER U.S. TERRITORIES	237	99	114	52
FOREIGN--TOTAL (1)	954	165	414	119

NOTE: COLUMN TOTALS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

(1) INCLUDES EUROPEAN REGION

TABLE 8.6A

ACTIVE GENERAL AVIATION AIRCRAFT AND HOURS FLOWN
BY FAA REGION AND STATE OF BASED AIRCRAFT
1980

FAA Region and State	Active Aircraft		Hours Flown	
	Aircraft	Standard Error	Hours (000)	Standard Error (000)
Total	211,045	945	41,016	650
New England--total	7,931	575	1,337	140
Connecticut	1,615	261	297	66
Maine	1,341	240	199	52
Massachusetts	3,044	361	481	97
New Hampshire	1,100	217	181	53
Rhode Island	358	130	70	32
Vermont	471	137	104	41
Eastern--total	24,021	963	4,449	275
Delaware	548	151	105	52
District of Columbia	59	50	31	30
Maryland	2,755	350	495	108
New Jersey	4,137	424	765	105
New York	6,278	514	1,103	138
Pennsylvania	6,167	496	1,021	120
Virginia	3,013	363	744	172
West Virginia	1,060	219	178	45
Great Lakes--total	38,443	1,190	6,317	306
Illinois	8,990	618	1,518	174
Indiana	4,248	426	672	111
Michigan	7,243	559	1,093	141
Minnesota	5,287	472	833	112
Ohio	8,283	597	1,397	144
Wisconsin	4,389	434	790	120
Central--total	14,264	778	2,332	190
Iowa	4,194	427	632	91
Kansas	4,190	430	689	105
Missouri	4,069	432	696	117
Nebraska	1,809	283	315	90
Southern--total	30,596	1,075	7,065	460
Alabama	2,083	295	427	88
Florida	11,347	682	3,026	447
Georgia	4,412	437	801	118
Kentucky	1,810	284	395	113
Mississippi	2,119	309	479	101
North Carolina	3,542	392	754	120
Puerto Rico	201	88	89	30
South Carolina	1,907	296	429	98
Tennessee	2,824	354	563	93

TABLE 8.6A(CONTINUED)

ACTIVE GENERAL AVIATION AIRCRAFT AND HOURS FLOWN
BY FAA REGION AND STATE OF BASED AIRCRAFT
1980

FAA REGION AND STATE	ACTIVE AIRCRAFT		HOURS FLOWN	
	AIRCRAFT	STANDARD ERROR	HOURS (000)	STANDARD ERROR (000)
SOUTHWEST--TOTAL	31,817	1,074	6,643	391
ARKANSAS	2,612	332	436	79
LOUISIANA	3,625	385	1,041	186
NEW MEXICO	2,041	283	406	94
OKLAHOMA	4,812	464	871	132
TEXAS	18,674	845	3,842	330
ROCKY MOUNTAIN--TOTAL	12,718	729	2,396	212
COLORADO	4,768	454	887	119
MONTANA	2,269	320	323	68
NORTH DAKOTA	1,684	279	313	115
SOUTH DAKOTA	1,386	251	252	83
UTAH	1,466	250	367	89
WYOMING	1,143	217	265	69
WESTERN---TOTAL	36,883	1,160	7,244	423
ARIZONA	4,881	461	1,104	205
CALIFORNIA	29,855	1,061	5,866	398
NEVADA	2,145	303	305	58
NORTHWEST--TOTAL	14,576	768	2,429	224
IDAHO	2,094	302	386	110
OREGON	5,967	493	1,079	151
WASHINGTON	6,483	529	938	134
ALASKAN REGION--TOTAL	6,465	453	1,171	164
PACIFIC--TOTAL	411	125	167	67
HAWAII	385	123	157	66
OTHER U.S. TERRITORIES	73	53	20	16
FOREIGN--TOTAL (1)	243	70	83	32

NOTE: COLUMN TOTALS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

(1) INCLUDES EUROPEAN REGION

IX. AIRCRAFT ACCIDENTS

The data presented in this chapter were obtained from the following sources:

Accidents: National Transportation Safety Board.
Air Carrier Miles Flown: National Transportation Safety Board.
Estimated General Aviation Hours and Miles Flown: Federal Aviation Administration.

As defined by the National Transportation Safety Board, an aircraft accident is: "an occurrence associated with the operation of an aircraft which takes place between the time any person boards the aircraft with the intention of flight until such time as all such persons have disembarked, and in which any person suffers death or serious injury as a result of being in or upon the aircraft or by direct contact with the aircraft or anything attached thereto, or in which the aircraft receives substantial damage."

Fatal injury means any injury which results in death within 7 days of the accident.

Operator means any person who causes or authorizes the operation of an aircraft, such as the owner, lessee, or bailee of an aircraft.

Serious injury means any injury which (1) requires hospitalization for more than 48 hours, commencing within 7 days from the date the injury was received; (2) results in a fracture of any bone (except simple fractures of fingers, toes, or nose); (3) involves lacerations which cause severe hemorrhages, nerve, muscle, or tendon damage; (4) involves injury to any internal organ; or (5) involves second- or third-degree burns, or any burns affecting more than 5 percent of the body surface.

Substantial damage:

(1) Except as provided in subparagraph (2) of this paragraph, substantial damage means damage or structural failure which adversely affects the structural strength, performance, or flight characteristics of the aircraft, and which would normally require major repair or replacement of the affected component.

(2) Engine failure, damage limited to an engine, bent fairings or cowling, dented skin, small puncture holes in the skin or fabric, ground damage to rotor or propeller blades, damage to landing gear, wheels, tires, flaps, engine accessories, brakes or wingtips are not considered substantial damage for the purpose of this part.

Commencing in 1968, general aviation accidents cannot be compared with earlier years because of an amendment to the definition of substantial damage.

Prior to January 1, 1968, the definition of substantial damage was:

(1) Except as provided in subparagraph (ii) of this paragraph:

(i) Substantial damage in aircraft of 12,500 pounds maximum certified takeoff weight or less means damage or structural failure reasonably estimated to cost $300 or more to repair.

(ii) Substantial damage in aircraft of more than 12,500 pounds maximum certified takeoff weight means damage or structural failure which adversely affects the structural strength, performance, or flight characteristics of the aircraft, and which would normally require major repairs or replacement of the affected component.

(2) Engine failure, damage limited to an engine, bent fairings, or cowling, dented skin, small puncture holes in the skin or fabric, taxiing damage to propeller blades, damage to tires, engine accessories, brakes or wingtips are not considered substantial damage for the purpose of this part.

More detailed accident data may be obtained from the National Transportation Safety Board, Bureau of Technology.

TABLE 9.1

AIRCRAFT ACCIDENTS, FATALITIES AND FATALITY RATE --
U.S. AIR CARRIER OPERATIONS: 1980*

Air Carrier and Operation	Number of Accidents		Number of Fatalities
	Total	Fatal	
Total--All Operations	20	2	14
Certificated Route Air Carriers	16	1	13
Supplemental Air Carriers	3	1	1
Commercial Operators	---	---	---
Deregulated All Cargo Carriers	---	---	---
Total--Passenger Operations	14	1	13
Certificated Route Air Carrier			
Scheduled Passenger Service	14	1	13
Domestic	8	1	13
International/Territorial	6	0	0
Supplemental Air Carrier Passenger			
Service (Civil and Military)	---	---	---
Commercial Passenger Service	---	---	---

NOTE: Beginning in 1975, accidents involving commercial operators of large aircraft are included. Nonrevenue miles of the supplemental air carriers are not reported.

Beginning in 1979, accidents involving deregulated all cargo carriers are included.

* Preliminary

SOURCE: National Transportation Safety Board.

TABLE 9-2

FATAL ACCIDENTS, FATALITIES -- U.S. AIR CARRIER ALL OPERATIONS: 1979 AND 1980*

Location	Operator	Date	Service	Aircraft	Fatalities				Total Aboard	Reported Type of Accident
					Total	Passenger	Crew	Others		
Total 1980					14	11	2	1	19	
Certificated Route Air Carriers--total										
Valley, NB	Air Wisconsin, Inc.	6/12/80	Psg	SA226AT	13	11	2	---	15	Crashed en route.
Supplemental Air Carriers										
San Diego, CA	Transamerica Airlines	8/23/80	Cargo	L-382	1	---	---	1	4	Hit parachutist in flight.
Total 1979					353	321	29	3	414	
Certificated Route Air Carriers--total					350	321	26	3	411	
Clarksburg, WV	Alleghney Airlines	2/12/79	Psg	N262	2	1	1	---	25	Crashed during takeoff
Newark, NJ	New York Airlines	4/18/79	Psg	S61	3	3	---	---	18	Crashed after takeoff
Chicago, IL	American Airlines	5/25/79	Psg	DC10	273	258	13	2	271	Crashed shortly after takeoff
Hyannis, MA	Air New England	6/17/79	Psg	DHC6	1	---	1	---	10	Crashed during approach to landing
Mexico City, MX (R)	Western Airlines	10/31/79	Psg	DC10	73	61	11	1	89	Crashed during landing
Supplemental Air Carriers										
Salt Lake City, UT	Transamerica Airlines	11/18/79	Cargo	L188	3	---	3	---	3	Airframe failure inflight.

* Preliminary

(R) Revised

TABLE 9.3
AIRCRAFT ACCIDENTS, ACCIDENT RATES, AND FATALITIES--
U.S. AIR CARRIER ALL OPERATIONS: 1971-1980*

Year	Number of Accidents		Aircraft Miles Flown (000)[A]	Accident Rate Per Million Aircraft Miles Flown		Fatalities		
	Total	Fatal		Total Accidents	Fatal Accidents	Total	Passengers	Crew and Others
1971	48	8(B)	2,660,731	0.018	0.002	203	174	29
1972	50	8	2,619,043	0.019	0.003	190	160	30
1973	43	9	2,646,669	0.016	0.003	227	200	27
1974	47	9	2,464,295	0.019	0.003	467	421	46
1975(C)	45	3	2,477,764	0.018	0.001	124	113	11
1976	28	4	2,568,113	0.011	0.002	45	39	6
1977	26	5	2,684,072	0.010	0.002	656	382	274
1978	24	6	2,742,860	0.009	0.002	163	141	22
1979(D)	32(R)	6	2,899,131	0.011	0.002	355(R)	323(R)	32
1980	20	2	3,035,600	0.007	0.001	14	11	3

(A) Nonrevenue miles of the supplemental air carriers are not reported.

(B) Includes midair collision accidents nonfatal to air carrier occupants. Number of accidents excluded from fatal accident rates (1971-2).

(C) Beginning in 1975, figures include accidents involving commercial operators of large aircraft.

(D) Beginning in 1979, figures include accidents involving deregulated all cargo carriers.

(R) Revised

* Preliminary

NOTE: Sabotage accident (9/8/74) is included in all computations except rates. In 1977, Fatalities (Other) includes 248 on aircraft of foreign registry.

SOURCE: National Transportation Safety Board.

TABLE 9.4
AIRCRAFT ACCIDENTS, ACCIDENT RATES, AND FATATLITIES--
U.S. CERTIFICATED ROUTE AIR CARRIERS: 1971-1980*

Year	Number of Accidents		Aircraft Miles Flown (000)	Accident Rate Per Million Aircraft Miles Flown		Fatalities		
	Total	Fatal		Total Accidents	Fatal Accidents	Total	Passengers	Crew and Others
1971	47	8(A)	2,557,968	0.018	0.002	203	174	29
1972	48	8	2,526,021	0.019	0.003	190	160	30
1973	40	8	2,555,732	0.016	0.003	221	197	24
1974	45	8	2,384,933	0.018	0.003	463	420	43
1975	36	2	2,357,425	0.015	0.001	122	113	9
1976	25	3	2,448,413	0.010	0.001	42	39	3
1977	21	4	2,556,080	0.008	0.002	396	382	14
1978	22	5	2,625,000	0.008	0.002	19	13	6
1979(R)	26	5	2,803,389	0.009	0.002	352	323	29
1980	16	1	2,966,000	0.005	**	13	11	2

(A) Includes midair collision accidents nonfatal to air carrier occupants. Number of accidents excluded from fatal accident rates (1971-2).

(R) Revised

NOTE: Sabotage accident (9/8/74) is included in all computations except rates. In 1977, Fatalities (Other) includes 248 on aircraft of foreign registry.

SOURCE: National Transportation Safety Board.

* Preliminary.

** Rounded to .000

TABLE 9.5

AIRCRAFT ACCIDENTS, FATALITIES, AND FATALITY RATE--U.S. CERTIFICATED ROUTE AIR CARRIER SCHEDULED DOMESTIC AND INTERNATIONAL PASSENGER SERVICE: 1971-1980

Year	Aircraft Accidents		Fatalities			Passengers Carried	Passenger-Miles Flown (000)	Passenger Fatality Rate Per 100 Million Passenger-Miles
	Total	Fatal	Total	Passenger	Crew and Others			
1971	41	6(a)	194	174	20	173,664,737	145,678,876	0.119
1972	43	7	186	160	26	188,938,932	159,722,015	0.100
1973	32	6	217	197	20	202,207,000	171,436,549	0.115
1974	42	7	460	420	40	207,449,006	173,349,894	0.197
1975	28	2	122	113	9	205,059,571	174,173,138	0.065
1976	21	2	38	36	2	223,313,131	190,915,721	0.019
1977	17	2	75	64	11	240,326,516	206,205,410	0.031
1978r	19	4	16	13	3	274,716,000	264,932,819	0.005
1979r	18	5	352	323	29	316,683,000	261,979,204	0.123
1980p	14	1	13	11	2	303,200,000	283,100,000	0.004

(a) Includes 2 midair collisions that were nonfatal to air carrier occupants.

r - Revised.

p - Preliminary.

NOTE: Passenger deaths occurring in sabotage accidents are included in the passenger fatality column, but are excluded in the computation of fatality rates (1974-1979 passengers).

SOURCE: National Transportation Safety Board.

TABLE 9.6

AIRCRAFT ACCIDENTS, FATALITIES AND FATALITY RATE--U.S. CERTIFICATED ROUTE AIR CARRIER SCHEDULED DOMESTIC PASSENGER SERVICE: 1971-1980

Year	Aircraft Accidents		Fatalities			Passengers Carried	Passenger-Miles Flown (000)	Passenger Fatality Rate Per 100 Million Passenger-Miles
	Total	Fatal	Total	Passenger	Crew and Others			
1971	33	6(A)	194	174	20	156,097,403	113,240,603	0.154
1972	37	6	185	160	25	169,931,415	123,775,960	0.129
1973	27	4	138	128	10	183,271,000	133,733,181	0.096
1974	31	3	168	158	10	189,723,697	137,657,951	0.115
1975	21	2	122	113	9	188,743,983	140,299,953	0.081
1976	17	1	1	1	---	206,274,000	154,322,683	0.001
1977	15	2	75	64	11	222,283,516	166,424,934	0.038
1978R	18	4	16	13	3	253,957,000	218,548,679	0.006
1979R	14	4	279	262	17	292,537,000	208,856,162	0.125
1980P	8	1	13	11	2	278,600,000	221,200,000	0.005

R - Revised.

P - Preliminary.

(A) Includes 2 midair collisions that were nonfatal to air carrier occupants.

SOURCE: National Transportation Safety Board.

TABLE 9.7

ACCIDENTS, FATALITIES AND FATALITY RATE--U.S. CERTIFICATED ROUTE AIR CARRIER SCHEDULED INTERNATIONAL PASSENGER SERVICE: 1971-1980

Year	Accidents		Fatalities			Passengers Carried	Passenger-Miles Flown (000)	Passenger Fatality Rate Per 100 Million Passenger-Miles
	Total	Fatal	Total	Passenger	Crew and Others			
1971	8	---	---	---	---	17,567,334	32,438,273	---
1972	6	1	1	---	1	19,007,517	35,946,055	---
1973	5	2	79	69	10	18,936,000	37,703,368	0.183
1974	12	4	292	262	30	17,725,309	35,691,093	0.513
1975	7	---	---	---	---	16,315,588	33,873,185	---
1976	4	1	37	35	2	17,039,131	36,593,038	0.096
1977	3	---	---	---	---	18,043,000	39,780,476	---
1978R	1	---	---	---	---	20,759,000	46,384,140	---
1979R	4	1	73	61	12	24,146,000	53,123,042	0.115
1980P	6	---	---	---	---	24,600,000	61,900,000	---

NOTE: Passenger deaths occurring in sabotage accidents are included in passenger fatality column but excluded in the computation of passenger fatality rates (1974-79 passengers).

SOURCE: National Transportation Safety Board.

P - Preliminary.

R - Revised.

TABLE 9.8
ACCIDENTS, ACCIDENT RATES, AND FATALITIES--U.S. SUPPLEMENTAL AIR CARRIERS
ALL OPERATIONS: 1971-1980

Year	Number of Accidents		Aircraft Miles Flown (000)(a)	Accident Rate Per Million Aircraft Miles Flown		Fatalities		
	Total	Fatal		Total Accidents	Fatal Accidents	Total	Passengers	Crew and Others
1971	1	---	102,763	0.010	---	---	---	---
1972	2	---	93,022	0.022	---	---	---	---
1973	3	1	90,937	0.033	0.011	6	3	3
1974	2	1	79,363	0.025	0.013	4	1	3
1975	2	---	65,476	0.031	---	---	---	---
1976	1	---	62,640	0.016	---	---	---	---
1977	2	---	67,699	0.030	---	---	---	---
1978R	2	---	69,946	0.029	---	---	---	---
1979R	1	1	61,492	0.016	0.016	3	---	3
1980P	3	1	59,000	0.051	0.017	1	---	1

(a) Nonrevenue miles not reported.

SOURCE: National Transportation Safety Board.

P - Preliminary.
R - Revised.

TABLE 9.9

AIRCRAFT ACCIDENTS, FATALITIES AND FATALITY RATE--U.S. SUPPLEMENTAL AIR CARRIER CIVIL AND MILITARY OPERATIONS: 1971-1980

Year	Accidents		Fatalities			Passengers Carried	Passenger-Miles Flown (000)	Passenger Fatality Rate Per 100 Million Passenger-Miles
	Total	Fatal	Total	Passenger	Crew			
1971	---	---	---	---	---	3,295,803	10,573,646	---
1972	---	---	---	---	---	3,473,599	10,049,683	---
1973	1	---	---	---	---	3,569,912	11,790,513	---
1974	1	---	---	---	---	3,194,463	10,862,449	---
1975	1	---	---	---	---	2,352,423	8,759,279	---
1976	1	---	---	---	---	2,191,661	8,199,053	---
1977	2	---	---	---	---	2,793,761	9,983,404	---
1978R	2	---	---	---	---	2,950,865	9,999,037	---
1979R	---	---	---	---	---	2,590,855	8,956,918	---
1980P	---	---	---	---	---	2,300,000	7,900,000	---

SOURCE: National Transportation Safety Board.

P - Preliminary.

R - Revised.

TABLE 9.10

AIRCRAFT ACCIDENTS, FATALITIES AND ACCIDENT RATES--
U.S. GENERAL AVIATION FLYING: 1971-1980

Year	Accidents		Fatalities	Aircraft Hours Flown (000)	Accident Rates 100,000 Aircraft Hours	
	Total	Fatal			Total	Fatal
1971	4,648	661	1,355	25,512	18.2	2.59
1972	4,256	695(A)	1,426(B)	26,974	15.8	2.57
1973	4,255	723(A)	1,412	29,974	14.2	2.41
1974	4,425	729(A)	1,438	31,413	14.1	2.31
1975	4,237	675(A)	1,345	32,024	13.2	2.10
1976	4,193	695	1,320	33,922	12.3	2.04
1977	4,286	702	1,436	35,792	12.0	1.96
1978R	4,494	793	1,770(B)	39,409	11.4	2.01
1979R	4,051	682	1,382	43,417	9.3	1.57
1980P	3,799	677	1,375	41,300	9.2	1.64

(A) Suicide/sabotage accidents are included in all computations except for rates (1970-1, 1972-3, 1973-2, 1974-2, 1975-2, 1976-4, 1977-1).

(B) Includes air carrier fatalities (1972-5, 1978-142) when in collision with general aviation aircraft.

SOURCE: National Transportation Safety Board.

P - Preliminary.
R - Revised.

TABLE 9.11
AIRCRAFT ACCIEDNTS, FATALITIES AND ACCIDENT RATES--
COMMUTER AIR CARRIERS: 1979 AND 1980

	All Revenue Operations		Passenger Operations	
	1979p	1980p	1979p	1980p
Accidents				
Total	57	36	32	25
Fatal	14	6	10	4
Facilities				
Passengers	49	13	49	15
Crew	16	9	10	5
Others	---	1	---	1
Total	65	23	59	19
Aircraft Hours Flown	1,261,500	1,263,200	1,100,000	1,160,000
Aircraft Miles Flown (000)	214,300	202,100	183,200	189,000
Revenue Passenger Miles Flown (000)	N/A	N/A	1,275,000	1,354,000
Departures	2,005,800	1,895,400	1,850,000	1,800,000
Accident Rate Per 100,000 Hours Flown*				
Total	3.17	2.30	2.45	1.90
Fatal	0.71	0.40	0.73	0.34
Accident Rate Per Million Miles Flown*				
Total	0.19	0.14	0.15	0.12
Fatal	0.04	0.02	0.04	0.02
Accident Rate Per 100,000 Departures*				
Total	1.99	1.53	1.46	1.22
Fatal	0.45	0.26	0.43	0.22
Passenger Facility Rate Per 100 Million Passenger Miles*	N/A	N/A	3.45	.96

p - Preliminary
r - Revised

* Rates exclude accidents involving operators not reporting traffic data to CAB.
When pertinent, accidents/fatalities used in rate computation are shown in parenthesis.

TABLE 9.12
AIRCRAFT ACCIDENTS, ACCIDENT RATES, AND FATALITIES--
COMMUTER AIR CARRIERS: 1976-1980*

Year	Number of Accidents		Aircraft Miles Flown (000)a	Accident Rate Per Million Aircraft Miles Flown		Fatalities		
	Total	Fatal		Total Accidents	Fatal Accidents	Total	Passengers	Crew and Others
1976	38	11	171	0.20	0.06	34	20	14
1977	42	9	194	0.19	0.04	32	21	11
1978	54	13	224	0.23	0.05	47	34	13
1979	57	14	214	0.19	0.04	65	49	16
1980	36	6	202	0.14	0.02	23	13	10

TABLE 9.13

COMPARATIVE ACCIDENT DATA: 1970 THROUGH 1979
(PASSENGER FATALITIES PER 100 MILLION PASSENGER-MILES)

Year	Passenger Automobiles and Taxis	Buses	Railroad Passenger Trains	Domestic Scheduled Air Transport Planes
1970	2.10	.19	.09	.00
1971	1.90	.19	.24	.15
1972	1.90	.19	.53	.13
1973	1.70	.24	.07	.10
1974	1.50	.21	.07	.12
1975	1.40	.15	.08	.08
1976	1.34	.17	.05	.003
1977	1.33	.13	.04(R)	.04
1978	1.30	.17	.13	.01
1979	1.31	.15	.05	.12

SOURCE: MOTOR VEHICLE (AUTOMOVILES, TAXIS, AND BUSES) AND RAILROAD PASSENGER TRAIN DATA FROM THE NATIONAL SAFETY COUNCIL. DOMESTIC SCHEDULED AIR TRANSPORT DATA FROM THE NATIONAL TRANSPORTATION SAFETY BOARD.

(R): REVISED

COMMON ACRONYMS

AAS	Airport Advisory Service
ADF	Automatic Direction Finder
ARSR	Air Route Surveillance Radar
ARTCC	Air Route Traffic Control Center
ASR	Airport Surveillance Radar
ATC	Air Traffic Control
ATCT	Airport Traffic Control Tower
CAB	Civil Aeronautics Board
CS/T	Combined Station/Tower
DME	Distance Measuring Equipment
DVFR	Defense Visual Flight Rules
FAR	Federal Aviation Regulation
FSS	Flight Service Station
ICAO	International Civil Aviation Organization (Montreal, Canada)
IFR	International Flight Rules
IFSS	International Flight Service Station
ILS	Instrument Landing System
LRNAV	Long Range Navigation
MLS	Microwave Landing System
NAS	National Airspace System
NAVAIDS	Navigational Aids
NOTAMS	Notice to Airmen
NTSB	National Transportation Safety Board
RNAV	Area Navigation
VFR	Visual Flight Rules
VHF	Very High Frequency
VOR	Very High Frequency Omnidirectional Radio Range

GLOSSARY

Active Aircraft--All legally registered civil aircraft which flew one or more hours.

Aerial Application--See Primary Use.

Air Carriers--The commercial system of air transportation consisting of the certificated route air carriers, air taxis (including commuters), supplemental air carriers, commercial operators of large aircraft, and air travel clubs.

- o Certificated route air carrier--An air carrier holding a Certificate of Public Convenience and Necessity issued by the Civil Aeronautics Board authorizing the performance of scheduled service over specified routes, and a limited amount of nonscheduled service.
- o Air taxi--The classification of air carriers which transports persons, property, and mail using small aircraft (under 30 seats or a maximum payload capacity of less than 71,500 pounds). An air taxi does not hold a Certificate of Public Convenience and Necessity nor economic authority as issued by the Civil Aeronautics Board.
- o Commuter air carrier--an air taxi which performs at least five round trips per week between two or more points and publishes flight schedules which specify the times, days of the week, and points between which such flights are performed.
- o Supplemental air carrier--An air carrier which holds a Certificate of Public Convenience and Necessity issued by the Civil Aeronautics Board, authorizing performance of passenger and cargo charter services supplementing the scheduled service of the certificated route air carriers. Both international and domestic charter operations are for a temporary period. The authority of supplemental air carriers to engage in military charters is of an indefinite period. In addition, they can perform on an emergency basis, as may be authorized by the Civil Aeronautics Board, scheduled operations including the transportation of individually ticketed passengers and individually waybilled cargo.
- o Commercial operator--a person who, for compensation or hire, engages in the carriage of aircraft in air commerce of persons or property other than as an air carrier or foreign air carrier.
- o Commercial operator of large aircraft--commercial operator operating aircraft of more than 12,500 pounds maximum certificated takeoff weight.
- o Air Travel Club--a person who engages in the carriage by airplanes of persons who are required to qualify for that carriage by payment of an assessment, dues, membership fee, or other similar types of remittance.

Aircraft Contacted--Aircraft with which the flight service stations (FSS) have established radio communications contact. One count is made for each en route, landing, or departing aircraft contacted by an FSS regardless of the number of contacts made with an individual aircraft during the same flight. A flight contacting five FSS's would be counted as five aircraft contacted.

Aircraft Handled--See IFR Aircraft Handled.

Aircraft Operation--The airborne movement of aircraft in controlled or noncontrolled airport terminal areas and about given en route fixes or at other points where counts can be made. There are two types of operations--local and itinerant.

- o Local operations are performed by aircraft which:
  - (a) Operate in the local traffic pattern or within sight of the airport.
  - (b) Are known to be departing for, or arriving from, flight in local practice areas within a 20-mile radius of the airport.
  - (c) Execute simulated instrument approaches or low passes at the airport.
- o Itinerant operations are all aircraft operations other than local operations.

Aircraft Type--A term used in this publication in grouping aircraft by basic configuration--fixed-wing, rotorcraft, glider, dirigible, and balloon.

Air Defense Identification Zone--The area of airspace over land or water within which the ready identification, the location, and the control of aircraft are required in the interest of national security.

Airline Transport Pilot--See Pilot.

Airman--A pilot, mechanic, or other licensed aviation technician.

Airman Certificate--A document issued by the Administrator of the Federal Aviation Administration certifying that the holder complies with the regulations governing the capacity in which the certificate authorizes the holder to act as an airman in connection with aircraft.

Airport--An area of land or water that is used or intended to be used for the landing and takeoff of aircraft, and includes its buildings and facilities, if any.

Airport Advisory Service (AAS)--A service provided by flight service stations at airports not served by a control tower. This service consists of providing information to landing and departing aircraft concerning wind direction and velocity, favored runway, altimeter setting, pertinent known traffic, pertinent known field conditions, airport taxi routes and traffic patterns, and authorized instrument approach procedures.

Airport Surveillance Radar (ASR)--Radar providing position of aircraft by azimuth and range data. ASR does not provide elevation data. It is designed for range coverage up to 60 nautical miles and is used by terminal area air traffic control.

Airport Traffic--Aircraft operating in the air or on an airport surface exclusive of loading ramps and parking areas.

Airport Traffic Control Service--Air traffic control service provided by an airport traffic control tower for aircraft operating on the movement area and in the vicinity of an airport.

Airport Traffic Control Tower (ATCT)--A central operations facility in the terminal air traffic control system, which consists of a tower cab structure, including an associated IFR room if radar equipped, and uses air/ground communications, radar, visual signaling, and other devices to provide safe and expeditious movement of terminal air traffic.

Airports of Entry--Aircraft may land at these airports without prior permission to land from U.S. Customs.

Air Route Traffic Control Center (ARTCC)--A facility established to provide air traffic control service to aircraft operating on IFR flight plans within controlled airspace, and principally during the en route phase of flight.

Air Taxi--See Air Carrier and Primary Use.

Air Traffic Control (ATC)--A service operated by appropriate authority to promote the safe, orderly, and expeditious flow of air traffic.

Air Traffic Control Facility--A facility which provides air traffic control services located in the U.S., its possessions and territories, and in foreign countries especially established by international agreement.

Air Traffic Hub--Air traffic hubs are not airports; they are the cities and Standard Metropolitan Statistical Areas requiring aviation services. Communities fall into four classes as determined by each community's percentage of the total enplaned passengers in scheduled service of the fixed-wing operations of the domestic certificated route air carriers in the 50 States, the District of Columbia, and other U.S. areas designated by the Federal Aviation Administration.

- o Large air traffic hub--a community enplaning 1.00 percent or more of the total enplaned passengers.
- o Medium air traffic hub--a commuity enplaning from 0.25 to 0.99 percent of the total enplaned passengers.
- o Small air traffic hub--a community enplaning from 0.05 to 0.24 percent of the total enplaned passengers.
- o Nonhub--a community enplaning less than 0.05 percent of the total enplaned passengers.

Air Travel Club--See Air Carrier.

All-Cargo Carrier (418)--One of a class of air carriers holding an All Cargo Air Service Certificate issued under section 418 of the Federal Aviation Act and certificated in accordance with FAR 121 to provide domestic air transportation of cargo.

All-Cargo Carrier--One of a class of air carriers holding temporary Certificates of Public Convenience and Necessity issued by the Civil Aeronautics Board, which authorize the performance of scheduled air freight, express, and mail transportation over specified routes, as well as nonscheduled operations which may include passengers.

Altitude Encoding (Automatic Altitude Reporting)--An aircraft altitude transmitted via the Mode C transponder feature that is visually displayed in 100 feet increments on the ground radar scope having readout capability.

American Flag Carrier--See U.S. Flag Carrier.

Approach Control Facility--A terminal area traffic control facility providing approach control service.

Approach Control Service--Air traffic control service provided by an approach control facility for arriving and departing aircraft and, on occasion, tower en route control service.

Area Navigation (RNAV)--A method of using navigation instruments that allows pilots flexibility to fly direct routes between waypoints or offset from published or established routes/airways at specified distance and direction.

Automatic Direction Finder (ADF)--An aircraft radio navigation system which senses and indicates the direction to a nondirectional radio beacon ground transmitter. Direction is indicated to the pilot as a magnetic bearing or as a relative bearing to the longitudinal axis of the aircraft.

Automatic Pilot--An aircraft can be controlled about the roll, pitch, and yaw axis by use of an automatic pilot. Information from VOR, ILS, MLS, and other navigation aids can be coupled to the automatic pilot for en route and approach flights.

Business Transportation--See Primary Use.

Certificated Route Air Carrier--See Air Carrier.

Combined Station Tower--A combined facility (see Airport Traffic Control Tower and Flight Service Station).

Commercial Operator--See Air Carrier.

Commercial Pilot--See Pilot.

Commuter Air Carrier--See Air Carrier.

Controlled Airspace--Airspace control area designated as a continental control area, control zone, terminal control area, or transition area, within which some or all aircraft may be subject to air traffic control.

Defense Visual Flight Rules (DVFR)--A flight within an Air Defense Identification Zone conducted under the visual flight rules in Federal Aviation Regulation, Part 99.

Distance Measuring Equipment (DME)--Airborne and ground equipment used to measure, in nautical miles, the slant range distance of an aircraft from the DME navigational aid.

Domestic Operations--In general, operations within and between the 50 States, and the District of Columbia.

Executive Transportation--See Primary Use.

Express (Air)--Property transported by air under published air express tariffs filed with the Civil Aeronautics Board.

Flight Advisory Service--Advice and information provided by a facility to assist pilots in the safe conduct of flight and aircraft movement.

Flight Plan--Specified oral or written information about the intended flight of an aircraft that is filed with air traffic control.

Flight Service Station (FSS)--Air Traffic Service facilities within the National Airspace System (NAS) which provide preflight pilot briefings and en route communications with VFR flights, assist lost IFR/VFR aircraft, assist aircraft having emergencies, relay Air Traffic Control clearances, originate, classify, and disseminate Notices to Airmen, broadcast aviation weather and NAS information, receive the close flight plans, monitor radio NAVAIDS, notify search and rescue units of missing VFR aircraft, and operate the national weather teletypewriter system. In addition, at selected locations, FSSs take weather observations, issue airport advisories, administer airmen written examinations, and advise Customs and Immigration of across-the-border flights.

Foreign Flag Air Carrier--An air carrier other than a U.S. flag air carrier engaged in international air transportation (see also U.S. Flag Carrier).

Foreign Mail--Mail transported outside the United States by U.S. flag carriers for a foreign government.

General Aviation--That portion of civil aviation which encompasses all facets of aviation except air carriers.

Glide Slope--See Instrument Landing System.

Heliport--An area of land, water, or any structure used or intended to be used for the landing and takeoff of helicopters.

Hub--See Air Traffic Hub.

IFR Aircraft Handled--The number of IFR departures multiplied by two plus the number of IFR overs. This definition assumes that the number of departures (acceptances, extensions, and originations of IFR flight plans) is equal to the number of landings (IFR flight plans closed).

IFR Departure--An IFR departure includes IFR flights originating in a center's area, accepted by the center under SOLE EN ROUTE clearance procedures, and extended by the center.

IFR Over--An IFR flight that originates outside the ARTCC area and passes through the area without landing.

Inactive Aircraft--All legally registered civil aircraft which flew zero hours.

Industrial/Special--See Primary Use.

Instructional Flying--See Primary Use.

Instrument Approach--An approach to an airport, with intent to land, by an aircraft flying in accordance with an IFR flight plan, when the visibility is less than 3 miles and/or when the ceiling is at or below the minimum initial altitude.

Instrument Flight Rules (IFR)--Rules governing the procedures for conducting instrument flight. Also a term used by pilots and controllers to indicate type of flight plan.

Instrument Landing System (ILS)--A precision instrument approach system which normally consists of the following electronic and visual aids:

- o Localizer--Provides course guidance to the runway.
- o Glide Slope--Provides vertical guidance during approach.
- o Marker Beacon--Provides aural and/or visual identification of a specific position along an instrument approach landing.

Instrument Operation--An aircraft operation in accordance with an IFR flight plan or an operation where IFR separation between aircraft is provided by a terminal control facility or air route traffic control center.

International Flight Service Station (IFSS)--A central operations facility in the flight advisory system, staffed and equipped to control aeronautical point-to-point telecommunications, and air/ground telecommunications with pilots operating over international territory or waters, which provides flight plan following, weather information, search and rescue action, and other flight assistance operations.

International Operations--In general, operations outside the territory of the U.S., including operations between the U.S. and foreign countries, and the U.S. and its territories or possessions. Includes both the combination passenger/cargo carrier and the all-cargo carriers engaged in international and territorial operations.

Itinerant Operation--See Aircraft Operation.

Jet Route--A route designed to serve aircraft operations from 18,000 feet to 45,000 feet.

Landing Rights Airports--Any aircraft may land at one of these airports after securing prior permission to land from U.S. Customs.

Large Air Traffic Hub--See Air Traffic Hub.

Localizer--See Instrument Landing System.

Local Operation--See Aircraft Operation.

Long Range Navigation--A method of navigation that permits navigation over long distances. This is in contrast to the relatively short range navigation provided by the VOR system.

Marker--See Instrument Landing System.

Medium Air Traffic Hub--See Air Traffic Hub.

Microwave Landing System (MLS)--An instrument landing system operating in the microwave spectrum which provides lateral and vertical guidance to aircraft having compatible avionics equipment.

Mode C--See Altitude Encoding.

Nondirectional Radio Beacon--A radio beacon transmitting nondirectional signals whereby the pilot of an aircraft equipped with direction finding equipment can determine headings to or from the radio beacon and "home" on a track to or from the station.

Nonhub--See Air Traffic Hub.

Notice to Airmen--A notice containing information concerning the establishment, condition or change in any component of, or hazard in the National Airspace System, the timely knowledge of which is essential to personnel concerned with flight operations.

Over--See IFR Over.

Passenger/Cargo Air Carrier--One of a class of air carriers holding Certificates of Public Convenience and Necessity issued by the Civil Aeronautics Board, authorizing the performance of scheduled air transportation of passengers and property over specified routes.

Personal Flying--See Primary Use.

Pilot--

- o Student Pilot--A student pilot may not operate an aircraft that is carrying a passenger or that is carrying property for compensation or hire.
- o Private Pilot--A private pilot may not act as a pilot-in-command of an aircraft that is carrying passengers for compensation or hire nor may a private pilot act as pilot-in-command for compensation or hire.
- o Commercial Pilot--A commercial pilot may act as pilot-in-command of an aircraft carrying passengers for compensation or hire and act as pilot-in-command of an aircraft for compensation or hire.
- o Airline Transport Pilot--An airline transport pilot may act as a pilot-in-command of an aircraft engaged in air carrier service.

Pilot Briefing--Information furnished a pilot to assist in flight planning. Principal items are weather conditions, notices to airmen, routes, and preparation and handling of the flight plan.

Positive Control--Control of all air traffic, within designated airspace, by air traffic control.

Primary Use--The use category in which an aircraft flew the most hours. The nine use categories are defined below:

- o Aerial Application--Any use of an aircraft for work purposes which concerns the production of foods, fibers, and health control in which the aircraft is used in lieu of farm implements or ground vehicles for the particular task accomplished. This includes the distribution of chemicals or seeds in agriculture, reforestation, or insect control; it excludes firefighting operations.
- o Air Taxi--Use of an aircraft operating under Federal Aviation Regulations, Part 135. See also Air Carrier-Air Taxi.
- o Business Transportation--Use of an aircraft not for compensation or hire by individuals for the purposes of transportation required by business in which they are engaged.

- o Executive Transportation--Any use of an aircraft by a corporation, company, or other organization for the purposes of transporting its employees and/or property not for compensation or hire, and employing professional pilots for the operation of the aircraft.
- o Industrial/Specialist--Any use of an aircraft for specialized work allied with industrial activity; excluding transportation and aerial application. (Examples: pipeline patrol, survey, advertising, photography, helicopter hoist, etc.).
- o Instructional Flying--Any use of an aircraft for the purpose of formal instruction with the flying instructor aboard, or with the maneuvers on the particular flight(s) specified by the flight instructor.
- o Personal Flying--Any use of an aircraft for personal purposes not associated with a business or profession, and not for hire. This includes maintenance of a pilot proficiency.
- o Rental Aircraft--Aircraft owned for the purpose of renting out.
- o Other--Any other use of an aircraft not included above.

Private Pilot--See Pilot.

Private-Use Airport--An airport which is not open for the use of the general public.

Privately Owned Airport--An airport which is owned by a private individual or corporation.

Publicly Owned Airport--An airport which is publicly-owned and under control of a public agency.

Public-Use Airport--An airport open to the public without prior permission, and without restrictions within the physical capacities of available facilities. May or may not be publicly owned.

Radar Altimeter--Aircraft instrument that makes use of the reflection of radio waves from the ground to determine the height of the aircraft above the surface.

Registered Aircraft--Aircraft registered with the Federal Aviation Administration.

Rental Aircraft--See Primary Use.

RNAV--See Area Navigation.

Small Air Traffic Hub--See Air Traffic Hub.

Stolport--An airport specifically designed for STOL (Short Take-off and Landing) aircraft, separate from conventional airport facilities.

Student Pilot--See Pilot.

Supplemental Air Carrier--See Air Carrier.

Terminal Area--A general term used to describe airspace in which approach control service or airport traffic control service is provided.

Tower--See Airport Traffic Control Tower.

Transponder--The airborne radar beacon receiver/transmitter portion of the Air Traffic Control Beacon System that automatically receives radio signals from interrogators on the ground and selectively replies with specific reply pulse-on-pulse group, only to those interrogations being received on the mode to which it is set to respond. Each aircraft transponder is capable of replying to 4,096 codes as selected by the pilot. Provides the air traffic controller positive location and, in some cases, altitude information.

U.S. Flag Carrier or American Flag Carrier--One of a class of air carriers holding a Certificate of Public Convenience and Necessity issued by the Civil Aeronautics Board, approved by the President, authorizing scheduled operations over specified routes between the United States (and/or its territories) and one or more foreign countries. (See also Foreign Flag Air Carrier.)

VFR Flight--Flight conducted in accordance with Visual Flight Rules.

VHF Communications--Provides radio voice communications between aircraft and ground stations, also between aircraft. Very High Frequency (VHF) is limited in range (line of sight) and usually used for air traffic communications.

VOR--Very high frequency omnidirectional radio range. Used as the basis for navigation in the National Airspace System.

VORTAC--A navigation aid providing azimuth and distance measuring equipment at one site.

Weather Radar- Provides the flight crew with visual display of weather that could contain turbulence. The system's primary function is to assist in turbulence avoidance, although most airborne radar systems are also capable of terrain mapping.

Below is a list of the publications compiled by the Information and Statistics Division. Questions may be directed to us by telephoning (202) 426-3791 or writing Information and Statistics Division, AMS-200, Federal Aviation Administration, Washington, D.C. 20591.

FAA Statistical Handbook of Aviation is a convenient source for historical data. It presents statistical information pertaining to the Federal Aviation Administration, the National Airspace System, Airports, Airport Activity, U.S. Civil Air Carrier Fleet, U.S. Civil Air Carrier Operating Data, Airmen, General Aviation Aircraft, Aircraft Accidents.

Reporting period:	Calendar Year
Latest edition:	1980 data
Order from:	National Technical Information Service or U.S. Government Printing Office
Date 1981 information will be available:	Various
Date next publication is scheduled:	December 1982 (1981 data)

U.S. Civil Airmen Statistics is an annual study of detailed airmen statistics. It contains calendar year statistics on pilots and nonpilots and the number of certificates issued.

Reporting period:	Calendar Year
Latest edition:	1980 data
Order from:	Information & Statistics Division
Date 1981 information will be available:	March 1982
Date next publication is scheduled:	June 1982 (1981 data)

Census of U.S. Civil Aircraft is an annual publication that includes statistical data on the registered civil fleet, air carrier aircraft, and general aviation aircraft--both registered and active, detailed reports for general aviation aircraft by owner's state and country, and registered aircraft by make and model.

Reporting period:	Calendar Year
Latest edition:	1980 data
Order from:	National Technical Information Service or U.S. Government Printing Office
Date 1981 information will be available:	May 1982
Date next publication is scheduled:	September 1982 (1981 data)

FAA Air Traffic Activity furnishes terminal and en route air traffic activity information (i.e., operations, flight plans filed) of the National Airspace System. The data is from the FAA-operated Airport Traffic Control Towers, Air Route Traffic Control Centers, Flight Service Stations, and Approach Control Facilities.

Reporting period:	Fiscal Year
Latest edition:	1980 data
Order from:	National Technical Information Service or U.S. Government Printing Office
Date 1981 information will be available:	January 1982
Date next publication is scheduled:	April 1982 (1981 data)

General Aviation Pilot and Aircraft Activity Survey includes data on the type and source of aircraft flight plan and weather information services, trip length in time and distance, pilot age and certification, estimates of total 1978 general aviation operations, fuel consumption and aircraft miles flown. The survey was made by the Federal Aviation Administration with the assistance of the Civil Air Patrol.

Reporting period:	Survey conducted in 3-year intervals
Latest edition:	1978 data
Order from:	National Technical Information Service (Refer to: FAA-MS-79-7)
Date 1981 information will be available:	January 1982
Date next publication is scheduled:	June 1982 (1981 data)

General Aviation Activity and Avionics Survey presents the results of the General Aviation Activity and Avionics Survey conducted to obtain information on the activity and avionics of the U.S. registered general aviation aircraft fleet. The survey reveals estimated flying time of the active general aviation aircraft, and other statistics by manufacturer/model group, aircraft type, state and region of based aircraft, and primary use. Estimates are included on fuel consumption, lifetime airframe hours, avionics, and engine hours.

Reporting period:	Calendar Year
Latest edition:	1979 data
Order from:	National Technical Information Service or U.S. Government Printing Office (Refer to: FAA-MS-81-1)
Date 1980 information will be available:	October 1981
Date next publication is scheduled:	February 1982 (1980 data)

General Aviation Avionics Statistics report presents avionics statistics for the 1976 general aviation aircraft fleet. The statistics are presented in a capability group framework which enables one to relate airborne avionics equipment to the capability for a general aviation aircraft to function in the National Airspace System.

Reporting period:	Calendar Year
Latest edition:	1979 data
Order from:	National Technical Information Service
Date next publication is available:	last edition

FAA Directory published three times each year, it contains six sections of data: Washington/Region/Center headquarters; field facilities; regional area maps and organizational charts; alphabetical listing; special interest groups; and, a glossary.

Reporting period:	Every four months
Latest edition:	May 1981
Order from:	Government Printing Office
Date next publication is available:	Fall 1981

Airport Activity Statistics of Certificated Route Air Carriers joint publication of the Federal Aviation Administration and the Civil Aeronautics Board furnishes airport activity of the certificated route air carriers. Included in the data are passenger enplanements, tons of enplaned freight, express and mail. Both scheduled/nonscheduled service and domestic/international operations shown by airport and carrier are included. This report includes departures by airport, carrier and type of operation, and type of aircraft.

Reporting period:	Calendar Year
Latest edition:	1980 data
Order from:	National Technical Information Service or U.S. Government Printing Office
Date 1981 information will be available:	June 1982
Date next publication is available:	September 1982 (1981 data)

Ordering Information

Addresses are listed below for ordering or information purposes.

- National Technical Information Service
  5285 Port Royal Road
  Springfield, VA 22161

  Telephone: (703) 487-4650 (Use this number if you have a stock number)
  (703) 487-4780 (This is the Identification Section. Use this number if you do not have a stock number.)

  Format: Microfiche - $3.50
  Hard copy made from microfiche. Cost depends on number of pages in report.

- U.S. Government Printing Office
  Public Documents Department
  Washington, D.C. 20402

  Telephone: (202) 783-3238 (orders and inquiries)

  Format: Hard copy--original published form. Cost varies with documents.

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